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REMINGTON PROJECT 241328

CA DOJ CERTIFICATION FIREARMS SAFETY DEVICE

REMINGTON ISS & ETRONX PRODUCTS
FINAL REPORT & HISTORY

Prepared by:

Marlin R. Jiranek, II

Senior Research Engineer

January 22, 2004

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Firearms.	^
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REFERENCED DRAWINGS	
E-110560 Alt. 2 Trigger Plate Bl	ank – Syn.
D-11050Trigger Plate	Synthetic
B-110580	Proof Pin
E-110585 Alt. 1 Trigger Plate Bl	ank – Syn.
D-110590 Trigger Plate -	- Synthetic
E-110650 Alt. 3 Trig Plate	Assembly
D-110700Trigger Plate	Synthetic
E-110710 Alt. 5Trigger Plate – Alu	m Casting
D-110715 Alt. 1Trigger Plate Com	
D-110720 Tr	
D-110740Tr	gger Plate
D110760Tr	gger Plate
B-110780 Trigger Plate	Assembly
D-110820 Alt. 1 Trigger Plate	Assembly
C-110870 Tr	
D-110905 Alt. 18	Trigger

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HISTORY

The state of California (CA) has passed legislation that added §12087.0 - §12088.9 to the California Penal Code. This addition requires that all firearms sold in the state of California are to be sold with either an approved firearms safety device or that the purchaser of the firearms show proof that they have an approved firearms safety device or an approved firearms storage device. Pursuant to the additions in the California Penal Code, an addition to the California Code of Regulations, Chapter 12.6, §977.10 - §977.90 of Title 11 was made to give the CA Department of Justice (DOJ) the authority to certify firearms safety devices for use to satisfy the requirements of the Penal Code. The additions to the California Code of Regulations outlines the requirements for CA DOJ certification, testing laboratories, and testing procedures to be used to test potential approved firearms safety devices.

Table 1 presents a complete history of the CA DOJ testing that was performed on Remington ISS equipped firearms. The initial testing was performed on the current production designs while the subsequent tests were performed on ISS design versions that were modified in an attempt to satisfy the CA DOJ testing requirements. Figure 1 presents a flowchart that depicts the chain of events that resulted in the testing that was completed. This report details the progression of the common (M/870) fire-control ISS development to meet the tertification criteria of the CA DOJ. Articles in the appendix of this report cover the work completed on the EtronX product pursuant to CA DOJ certification. Further development and design work completed on the M/710 and M/597 ISS designs were performed by other Remington personnel.

	737335		V24218
ca do	J. Testing History		s resident select
Safety Device	Date Tested	USTL I.D.	Result
W7700 LSS.	Capter 2, 2004	F-5400003	PA\$\$
	October 3, 2001	FSD096	FAIL
M/870 Aluminum J.S.S.	October 3, 2001	FSD097	FAIL
M/870 Synthetic LS.S.	October 2, 2001	FSD094	F/AIL
M/597 LS.S	October 2, 2001	FSD095	FAVIL.
M/700 EtronX Keyswitch	October 2, 2001	FSD092	FAIL
IMETO INTROVER SYMBOLIC LES.	Same to 17, 2002	F \$5302	PASS
M676 2-Bas Alleman (\$ \$,	. am. any 9, 2000	<u> </u>	_ PASS
M/870 2-Dot Synthetic I.S.S.	January 9, 2003	F\$D320	EAN.
M/597 2-Dot I.S.S.	January 9, 2003	FSD321	FAIL
MAZO Z-Dot Aniministis S	Novembal (2, 2003	F SQ429	
MISTO A BOX CONTROLLER	Newspaper (1) at a	15-15-1 JULY 25-1	1-14/2/2
M/597 2-Dot I.S.S.	November 12, 2003	FSD430	FAIL

Table 1. CA DOJ Testing History for all I.S.S. type fire-controls.

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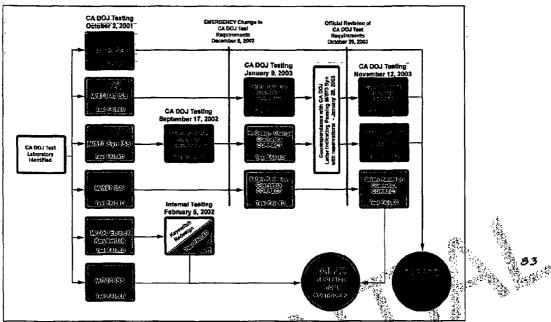


Figure 1. Flowchart of the testing procedures that were carried out by Remington.

SUMMARY

Remington has received certification of the current production M/700 ISS device as a CA DOJ approved firearms safety device. The certified device is per the current production design as of the writing of this report.

Remitigton has received certification of a modified common fire-control in both synthetic and aluminum housings as a CA DOJ approved firearms device. The CA DOJ has been informed that the new design is not currently being produced. If Remington decides to produce the CA DOJ approved design of the common ISS, the CA DOJ will need to be notified that the products will be available in order to update their website. Additionally, other Remington products that utilize the common fire-control have been self certified by Remington including model 870, 1100, and 11-87 shotguns, model 7400 and 7600 centerfire rifles, and model 552 and 572 rimfire rifles.

The modified common fire-control design is referred to as the "2-Dot ISS" due to the two white dots added to distinguish it from the current production design of the common fire-control ISS. The modifications over the current production version of the common fire-control ISS include two design changes and one cosmetic change. The first design change is a metal injection molded (MIM) trigger that is case hardened, with the upper portion induction annealed for final assembly. The hardness of the lower portion of the trigger is HR15n 88 minimum. The second design modification is a 1.125" hardened pin (HRc 58 minimum) inserted into the trigger housing behind the safety button. The cosmetic change is the addition of the two white dots that indicate the ISS system is engaged.

The design specifications for these modifications are referenced in the index at the beginning of this report and are stored electronically on the computer server at Remington's Ilion, NY

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firearms manufacturing facility. The re-design and testing effort was a joint project that included Marlin Jiranek at the Remington R&D Technical Center and Dave Findlay and Glen Sietsema at the Remington manufacturing facility located in Ilion, NY.

The M/710 and M/597 ISS designs have not received CA DOJ approval as a certified firearms safety device. The EtronX keyswitch failed the CA DOJ testing and did not receive approval. These systems were evaluated for cost-effective design changes that may be done to bring the systems into compliance with the CA DOJ specifications. The M/710 effort was assigned to Brad Howard at the Remington R&D Technical Center. The M/597 effort was assigned to Todd Cook at the Remington R&D Technical Center. The EtronX was assigned to Marlin Jiranek at the Remington R&D Technical Center.

The balance of this report describes in detail the efforts which resulted in the certification of the M/870 common fire-control and the supporting documents of all of the testing that has been performed to the date of this report.

The CA DOJ testing criteria is summarized in detail in a report dated July 17, 2001 entitled "Remington I.S.S. Testing per California DOJ Lock Regulations", included in the appendix of this report. The testing procedures outlined in the referenced report may be slightly different that the current testing procedures. The current procedures are outlined in the CA DOJ text of regulations, included in the appendix of this report. For the most current information, the CA DOJ, firearms division website contains the down-loadable text of regulations reflecting the most current standards.

Per the CA DOJ testing regulations, there are potentially nine different tests, seven of which apply to the Remington ISS type safety devices. These applicable tests include:

- 1. Picking or Manipulating Test
- 2. Forced Removal Inspection
- 3. Shock Test (Impacing
- 4 Plug Pulling Test (Drilling the lock cylinder)
- 5. Plug Torque Test
- 6. Sawing Test (Hacksaw Attack)
- 7. Drop Testing

INITIAL TESTING - OCTOBER 2001

The initial testing (October 2001) was performed on the current production models of the Remington I.S.S. equipped firearms and the Remington EtronX firearm. The results of these tests were reported in a report dated October 12, 2001 entitled "Remington ISS / EtronX Testing per California DOJ Lock Regulations", included in the appendix of this report. During this test, the M/700 ISS passed the CA DOJ criteria and became a CA DOJ certified firearms safety device. All of the ISS equipped devices that did not pass the initial test failed the "saw test" portion of the testing procedure. The M/700 EtronX failed the "plug torque" testing procedure.

ETRONX KEYSWITCH RE-DESIGN

Subsequent design work was done on the EtronX product keyswitch that included utilizing a new keyswitch that was manufactured from metal stampings rather than plastic injection molding. The new keyswitch was an improvement over the old style, but did not meet the CA DOJ testing requirements as tested in-house at the Remington R&D Technical Center. The Remington internal testing yielded results that indicated the new design would not meet the CA DOJ specifications. The result of this work was reported to Dale Danner in a report entitled "CA DOJ Plug Pulling Test Results - New EtronX Keyswitch", dated February 5, 2002. A

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copy of the report is included in the appendix of this report. Attempts to further redesign the EtronX keyswitch were deemed too costly and further work was abandoned.

M/870 (COMMON FIRE-CONTROL) RE-DESIGN

Design work to alter the current common fire-control to pass the CA DOJ specifications continued in a joint effort between the Remington manufacturing site in Ilion, NY and the Remington R&D Technical Center in Elizabethtown, KY. The design intent was to protect the safety button from removal by the saw attack, the method by which the fire-control failed the initial testing. Figure 2 presents an image of a failed M/870 fire-control in which the safety button was completely removed from the fire-control by a saw attack. The design alteration was accomplished by utilizing two design modifications.

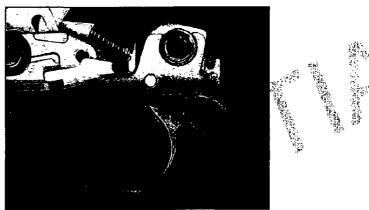


Figure 2. An image of a M/870 fire-control safety button defeated my attack with a hacksaw, where the safety button was completely removed from the fire-control.

The first design modification was to insert a hardened steel pin into a blind hole behind the safety button. Figure 3 presents a cross-section sketch of the M/870 fire control showing the location of the tiple. This pin would successfully block a saw attack directly from the back of the trigger bow, similar to the attack presented in Figure 2.

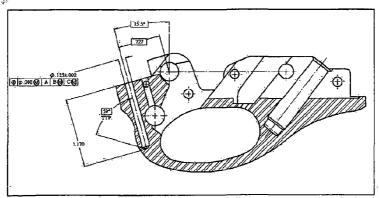


Figure 3. A sketch of a cross-section of the M/870 fire-control showing the location of the hardened pin (yellow).

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The second design modification was done to prevent a saw attack either partially through the trigger or just behind the trigger cutting up to the bottom of the safety button. To prevent this type of attack, a MIM trigger was designed that had two protruding shark fins below the safety button. Figure 4 presents a view of the new trigger design. The entire trigger was case hardened to a surface hardness of HR15n 88 minimum. The portion of the trigger above the shark-fin features was then induction annealed so that the trigger could be assembled using the standard production method of assembly and reaming to fit.

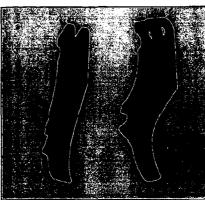


Figure 4. A sketch of the first CA DOJ trigger design. The shark-fin features are the lower fins on the back of the trigger.

The CA DOJ standard also required that the firearms safety device be discernable from other similar devices to be easily identified as a CA DOJ certified device. To accomplish this, the fire control housing was altered to incorporate two white dots at the engaged position of the ISS system, differentiating it from the current production ISS fire-control that has only one white dot. Figure 5 presents an illustration of the 2-dot fire-control and Figure 6 presents a sketch showing the exact location on the trigger bow of the two dots with respect to the safety button hole.

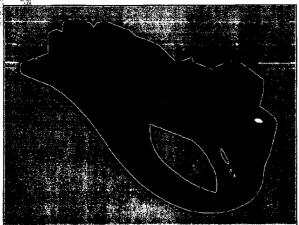


Figure 5. An illustration of the cosmetically correct CA DOJ M/870 fire-control housing, containing two white dots at the ISS locked position. The blind hole for the hardened pin is shown in yellow.

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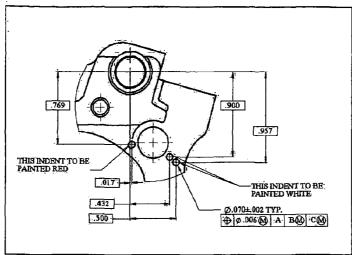


Figure 6. A sketch of the location of the two white dots with respect to the safety button hole on the M/870 fire-control.

To complete testing per the CA DOJ specifications, all of the firearms safety device components must have been fabricated using materials and processes that are the same for the commercially available devices. In this case, the MIM trigger mold and the medification of the production fire-control housing tooling had not been completed. As the cost of the MIM mold was high, prototypes of the MIM trigger were manufactured using MIM material blanks to machine and heat treat the triggers. As the cost of the fire-control housing tool modification was also high, a standard M/870 synthetic fire-control housing was used to assemble the prototypes.

The re-designed Mi870 fire control was tested by the certified testing laboratory utilizing these prototype parts, the synthetic fire-control housing that did not contain the two white dots and the trigger machined from MIM blanks. This was done to prove that the design changes would pass the test, prior to incurring the expenses associated with the manufacture of the MIM trigger mold and modification of the production tooling. At the time of the testing (September 2002), the CA DOJ testing requirements required the firearms safety device to be in its final cosmetic configuration for the test to be used as a certification test, therefore, this test could not be used as an official certification test for the design.

CA DOJ TESTING M/870 SYNTHETIC FIRE-CONTROL SEPTEMBER 2002

A prototype of the synthetic common fire-control was tested on September 17, 2002 and a report generated on September 18, 2002 entitled "Preliminary Remington Common F/C ISS Testing per California DOJ Lock Regulations", included in the appendix of this report. The written report reflects the fact that the fire-control passed the CA DOJ testing procedures. Based on the test result, the MIM trigger mold was processed and the fire control housing was altered to manufacture new, cosmetically and materially correct, samples for test in January 2003.

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CA DOJ EMERGENCY ALTERATIONS TO PROCEDURES DECEMBER 5, 2002

On December 5, 2002, the CA DOJ notified by fax the certified test laboratories that there was a change to the testing procedures effective immediately. Specifically, the change incorporated an additional manipulation step to the saw test that included manipulation with an 8-10" flathead screwdriver for a period of two minutes after the sawing was completed. This change in procedures was not updated on the website until January 8, 2003.

CA DOJ TESTING M/870 SYN/AL & M/597 JANUARY 2003

The parts to build the prototype common fire-controls were available at the end of December 2002. Aluminum and synthetic fire-controls were built for test along with a sample of M/597 fire-controls that incorporated some design changes by T. Cook. The testing resulted in the passing of the aluminum common fire-control, but the failure of the synthetic common fire-control and the M/597 fire-control. The synthetic common fire-control was identical to the samples tested in September 2002 by design, with exceptions that the triggers were actually produced in the MIM mold and the cosmetics of the housing were correct and contained the two white dots in the ISS locked position.

The emergency change to the CA DOJ testing procedures resulted in the failure of the synthetic fire-control because the screwdriver was used to pry-off the two trigger fins below the safety button. Once the fins were fractured off of the trigger, the safety button could be pried out of the fire control housing and the fire-control could then be operated normally, without the safety in place.

The emergency alterations from the CA DQL also included that the firearms safety devices do not have to be tested in their final competic configuration, so long as the differences between the tested version and the commercial product were solely cosmetic.

Based on the latter, the test laboratory contacted the CA DOJ directly by telephone and was instructed by the CA DOJ that both the aluminum and synthetic designs would pass based on the lanuary 2003 test results of the aluminum fire-control and the September 2002 test results of the synthetic fire control.

D. Danner, then Director of Technology and Testing of Remington Arms Company, indicated that to legally protect Remington from litigation, Remington would need to obtain a letter from the CA DOJ indicating that Remington informed the CA DOJ of the failure and that the CA DOJ would accept the September 2002 test results over the January 2003 test results to approve the common synthetic fire-control as a CA DOJ approved firearms safety device, in writing.

CA DOJ RULING AND CORRESPONDENCE

Per the instruction of D. Danner, the test laboratory sent a letter to CA DOJ informing the CA DOJ of the synthetic fire control passing the CA DOJ test criteria in September 2002 and failing the current emergency procedures CA DOJ test criteria in January 2003. Remington contacted the CA DOJ and requested a letter confirming that they received all of the information and that the fire-control would become an approved safety device based on the results of the September 2002 testing. A letter was received from the CA DOJ on January 28,

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2003 indicating the that the previous test results would stand and that the CA DOJ would allow the synthetic M/870 fire-control to become an approved safety device. However, the letter also stated that the CA DOJ did this with reservation and indicated that Remington may not want to market the device as a CA DOJ approved device on their own. A copy of the correspondence from the CA DOJ is included in the appendix of this report.

Based on this correspondence, Remington viewed the testing as a failure. This prompted a small design change for a re-test of the M/870 synthetic fire control. In talking with the representatives from the CA DOJ, it was discovered that the emergency actions of the CA DOJ would be altered in the near future and that the alteration would include the removal of the screwdriver manipulation at the end of the sawing test. Based on this information, it was decided by D. Danner that Remington would move forward with the redesign of the trigger and then re-test the fire-control when the CA DOJ changes go into effect. The CA DOJ changes went into effect in October 2003.

M/870 (COMMON FIRE-CONTROL) TRIGGER RE-DESIGN

The trigger was modified by adding a web of material in the MIM component that effectively joined the two shark-fin features on the back of the trigger. This web of material blocked the entrance of a screwdriver tip between the two fins from the bottom of the trigger effectively blocking the methodology used to defeat the fire-control in the January 2003 tests. Figure 6 presents an illustration of the improved trigger design. Figure 7 presents a sketch of the trigger design in cross-section with the web of additional material biguilighted in yellow color.

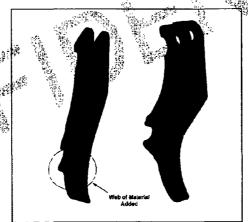


Figure 6. An illustration of the improved trigger design. The additional web of material is circled as compared to the first redesign effort.

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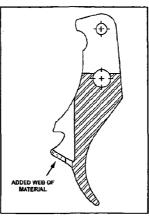


Figure 7. A sketch of the improved trigger design in cross section showing the location of the additional web of material.

CA DOJ TESTING M/870 SYN/AL & M/597 NOVEMBER 2003

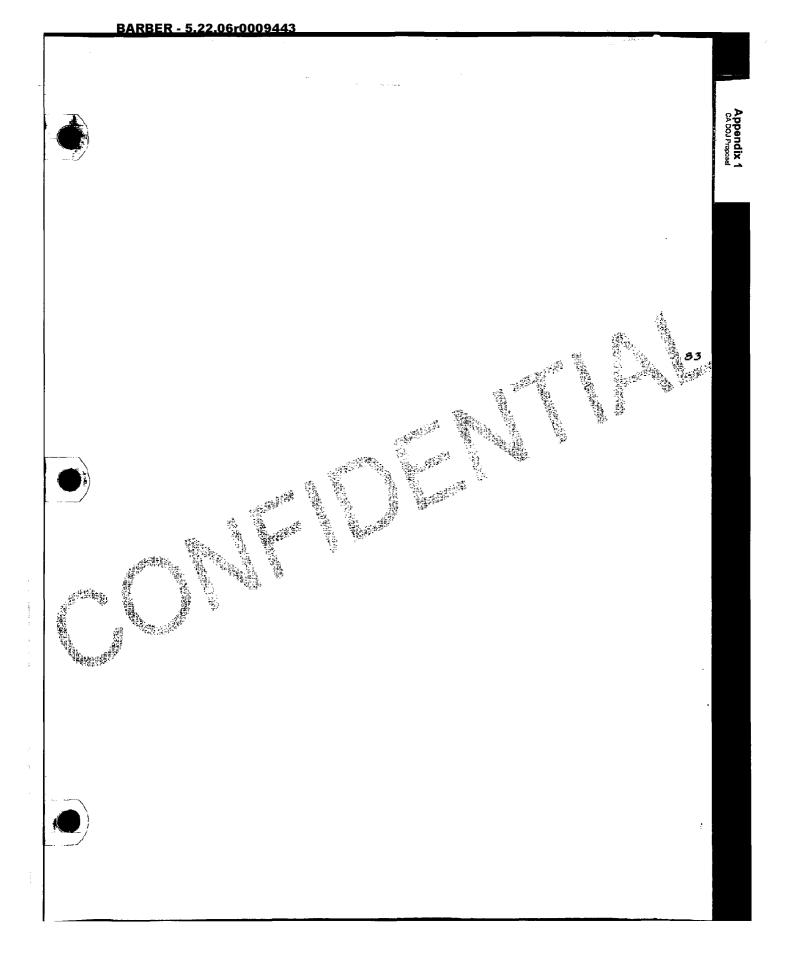
The official CA DOJ change in the regulations was completed in October 2003 and the testing of the improved designs of the M/870 and M/597 fire-controls was scheduled for November 12, 2003. Both the synthetic and aluminum versions of the M/870 fire-control passed the CA DOJ certification testing. The M/597 fire-control failed the CA DOJ testing process. Based on the design efforts to date on the M/597 fire-control further work has been abandoned.

A letter was received from the CA DOJ acknowledging that the two M/870 fire-controls passed the testing criteria and has received CA DOJ certification as approved firearms safety devices.

The CA DOJ has been notified that the 2-dot version of the common-fire control ISS has not been implemented into current production and is not commercially available at this time. Self certification of the other Remington firearms products that utilize the common fire-control has been completed and is posted on the CA DOJ website. The self-certified firearms include all variants of the M/870, 1100, 11-87, 7400, 7600, 552, and 572 shotguns and rifles. If Remington decides to manufacture the 2-dot version of the common fire-control ISS, the CA DOJ will need to be informed that the products will be available in the market and that the CA DOJ database is updated correctly.

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Remington® I.S.S. Testing

(Integrated Security System)

per

California DOJ Lock Regulations

Proposed addition of Chapter 12.6, §977.10 - §977.90 of Title 11 of the California Code of Regulations, pursuant to §12087.0 -- §12088.9 of the Penal Code.

written by:

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July 17, 2001 CA DOJ Regulation Testing of ISS

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HISTORY

Commencing on January 1, 2002, The California Penal Code, §12087.0 - §12088.9, prohibits the manufacture and sale of a firearm unless it is accompanied by a California Department of Justice (DOJ) approved safety device. The California DOJ is therefore required to complete the following:

- Develop and set the standards for gun safes and firearms safety devices
- Develop testing standards relative to firearms safety devices
- Certify independent testing laboratories to test firearms safety devices
- Provide for the testing of firearms safety devices by such laboratories
- Produce a roster listing all models of devices that have passed testing

It is in Remington Arms Company's interest to determine if the recently developed Integrated Security System (ISS) satisfies the proposed requirements of the California DOJ. These requirements are listed in two sections of the proposed regulations, §977.44 "Firearms Safety Device Standards", and §977.45, "Testing Procedures"

The proposed testing protocol for the ISS system is detailed in the following sections. Based on the results of the testing, a decision will be made whether to contact and send samples to a California DOJ approved independent testing laboratory for official DOJ certification per the regulations. This test plan has been designed to test to the most current of the proposed California DOJ regulations, Revision 2, which was last updated on May 29, 2001 and open for comment until 5,00pm on June 13, 2001. Appendix A contains the document in Adobe PDF format) as submitted by the California DOJ. There have two further revisions of the standards, however, they were only revisions to the Gun Safe Standards section of the Regulations. Further information can be obtained at the California DOJ, web-site: http://caag.state.ca.us/firearms/regs/ab106index.htm

The cost of completing the evaluation is estimated to be \$4,000. The estimated completion date of testing, based on a start date of July 30, 2001, is October 31, 2001. The reason for the length of time the test will take to be completed is primarily driven by the necessity to design and manufacture specialized fixtures for the shock testing portion required by the California DOJ regulations.

TESTING PROCEDURES

The testing procedures are presented in three separate sections. The first section, <u>Timeline / Cost Proposal</u>, includes a complete list and estimated cost of the equipment which will be required to complete this evaluation and an estimated timeline to which the evaluation will be executed. The second section, <u>Firearms Safety Device Standards</u>, presents the proposed tests to certify that the ISS satisfies the requirements of §977.44, "Firearms Safety Device Standards". The third section, <u>ISS Device Testing Procedures</u>, presents the proposed tests to certify that the ISS satisfies the requirements per §977.45, "Testing Procedures" and their relevance to testing the ISS device.

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July 17, 2001 CA DOJ Regulation Testing of ISS Revision 2

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Timeline / Cost Proposal

To perform a complete evaluation of the ISS device, the device is required to be tested on all of the firearms which it is used. For the purpose of this test, it is proposed that the testing be conducted on the primary models of firearms which the ISS device is implemented. Table 1 presents the required Remington product and the estimated manufacturing costs associated with the products which are required to complete the proposed test. Figure 2 presents a GAANT chart which presents the proposed timeline and total project cost which is required to complete the proposed test.

		Remington Product Required for Testing		
Quantity	Product Model	Component	Cost	Extended Cos
- 8	710	ISS Containing Complete Firing Pin Assembly	\$23.64	\$189.12
1	710	ISS Containing Complete Rifle	\$142.43	\$142.43
5	710	Replacement Stocks	\$9.39	\$46.95
. 8	700	ISS Containing Complete Firing Pin Assembly	\$12.21	\$97.68
1	700	ISS Containing Complete Rifle (ADL - Wood Stock)	\$193.191	\$193,19
. 5	700	Replacement Stocks	\$65.70	\$328.50
8	597	ISS Containing Assembled F/C Housing	\$10.27	\$82.16
1	597		\$140.83	\$140.83
5	597		j(\$58.18	\$290.90
8			\$19.57	\$156.56
8		ISS Containing Synthetic Common F/E Housing	\$16.60	\$132.80
1	870	ISS Containing Complete Shotgan (Express - Wood)	\$144.23	\$144.23
5	870	Replacement Stocks	\$11.06	\$55.30
			L COST:	\$2,000.65

Table 1. Cost estimate for Remington supplied products. The cost estimate is based on current SAP manufacturing cost numbers.

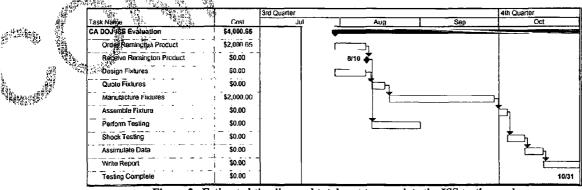


Figure 2. Estimated timeline and total cost to complete the ISS testing and evaluation.

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July 17, 2001 CA DOJ Regulation Testing of ISS Revision 2

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Firearms Safety Device Standards

Based on the proposed regulations, the safety device being tested must satisfy five requirements to be considered a safety device. These requirements are presented in §977.44, subsections a, b, c, d, and e. All five of the requirements are objective in nature. While the fifth requirement at first seems to be subjective, further explanation in the DOJ regulation text clarifies the requirement. The five requirements include:

- 1.) §977.44, subsection a: "The firearm safety device shall be of a design that will not allow its removal or deactivation except by utilizing a key, combination, or other unique method as intended by the manufacturer to allow access only by authorized users, within the standards set forth in these regulations.
 - (1) Combination locking systems shall have a minimum of 1,000 possible unique combinations consisting of a minimum of three numbers, letters, or symbols per combination.
 - (2) Key locking systems shall be unique to the manufacturer's firearms safety device(s)"

The ISS system satisfies this requirement by requiring the J-shaped key for proper operation.

- 2.) §977.44, subsection b: "The firearms safety device shall render the firearm isoperable tunable to be fired) while the firearms safety device is properly installed."
- 3.) §977.44, subsection c: "The firearms safety device shall function by at least one of the following methods:
 - (1) By blocking travel of the trigger, striker, firing pin, or hammer.
 - (2) By preventing the action or cylinder from closing.
 - (3) By preventing the chamber(s) from accepting or holding a live cartridge.
 - (4) By preventing access to the firearm

The ISS satisfies the second and third requirements by the nature of the operation of the device. The ISS operates by blocking the firing pin from forward motion in the M/700 and M/710 rifles. In the case of the M/597 and the firearms utilizing the common firecontrol, it operates by blocking movement of the trigger.

A)\$977.44, subsection d: "When used in the manner designed and intended by the manufacturer, the firearms safety device shall be capable of repeated use and shall pass the testing procedures described in these regulations".

The ISS will satisfy this requirement if it passes the testing procedures presented in the next section of this testing proposal.

5.) §977.44, subsection e: "The firearms safety device shall be capable of withstanding manipulation with common household tools for a ten-minute period without being disabled".

Common household tools are defined in §977.20, subsection (d) as: "...screwdrivers (8-10 inches in length, flathead or Phillips, flathead sizes up to 5/8 inches), pipe wrenches (9½ - 10 inches in length), vice grip pliers (9½ - 10 inches in length), other pliers (9½ - 10 inch arch joint, 6 - 6½-inch slip joint, 6 - 6½-inch long nose), hacksaws (12 inch, standard carbon steel blade), crowbars (16 inch), electric/cordless drills (1/3 horsepower corded/9.6 volt cordless), hammers (16 ounce), chisels (1/4-inch to 1-inch blade width wood chisels), and crescent wrenches (10 inches)".

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The only desirable tool which this definition does not contain is a bench vice. This specification initially is interpreted as subjective by allowing any combination of tools and a person ten minutes to de-function the device. The subjectivity is based on the person, his/her ability to work with tools, and his/her knowledge of the workings of the device and best method to defeat the device.

However, the reason that this last requirement has been interpreted as not being subjective is that the definition of the testing procedures outlined in §977.45, "Testing Procedures" has been changed from previous revisions. The initial paragraph reads as follows: "The tests in this section are designed to replicate the forces that would be exerted on firearms safety devices through the use of common household tools for an approximate ten-minute period". It should be noted that in the May 2, 2001 revision of the proposed regulations, the following second sentence to this subsection (§977.45) was removed: "The intent of the DOJ is not to restrict a testing laboratory from going beyond the testing procedures if the laboratory identifies a firearms safety device shortcoming that would allow the firearms device to be disabled in less than tenminutes using common household tools". Based on this information, it can be interpreted that the intent of the tests presented in the regulations are representative of simulating attempts to disable the firearms safety device using common household tools and that these tests and only these tests shall be used to determine the suitability of the safety devices for use; i.e. passing these tests and only these tests is the only requirement for being certified as a CA DOJ approved firearms safety device.

The ISS devices tested will include two each of the M/710, M/700, M/597, aluminum common fire-control, and the plastic common fire-control. If the device is defeated, the results will include a defailed description of the method used.

ISS Device Testing Procedures

There are ten tests that are described as lock criteria in the proposed regulations. These are the tests which are referenced in the fourth standard presented in the previous section and are described in §977.45, subsections c, d, and e. An assumption is made that the firearm is not allowed to be disassembled prior to testing of the ISS device unless stated in the test specifications. The tests which the safety device must pass are dependent upon whether the test can be conducted on the safety device. Some of the tests do not apply if the test cannot be performed on the device. Each of the ten tests are presented as they are stated in the proposed regulations. The tests which apply to the ISS device will be performed on two of each type of ISS device.

1.) §977.45, subsection c.1: "Picking or manipulating test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). Cylinders in the firearms safety device shall resist picking with the use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Time shall be counted only while tools are in contact with the lock. Combination locks shall resist manual manipulation for two minutes. Time shall be counted only while hands are manipulating the combination lock. This test shall be performed by a tester with no

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specialized training or skills in lock picking or manipulation (e.g. locksmith training or the use of reference guides on lock picking or manipulation). In the case of a key lock, failure occurs if the lock mechanism can be disengaged during six minutes of manipulation. In the case of a combination lock, failure occurs if the combination lock can be disengaged without the proper combination being entered during two minutes of manipulation".

This test will be conducted on the ISS device.

2.) §977.45, subsection c.2: "Forced removal inspection. Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from the firearm through the partial destruction of the firearm with common household tools. Partial destruction includes, but is not limited to, removing a portion of an exposed trigger guard or removing the hammer spur of the firearm (if so equipped) without rendering the firearm inoperable. For example, a firearms safety device that fully encloses the trigger guard of the firearm may pass this inspection, while a firearms safety device that would allow a portion of the trigger guard to be sawed off to allow for removal of the firearms safety device may fail this inspection. Failure occurs if inspection of the firearm and firearms safety device indicates that the firearms safety device may be disabled or removed through partial destruction of the firearm as described in this subsection".

This test will be conducted on the ISS device. Note that this test, as defined, is only an inspection and does not include the actual destruction of the firearm or ISS system. For the purposes of this test, however, the ISS devices/firearms tested will be destroyed and documented as to the time and process which was included to render the device inoperable.

3.) §977.45, subsection c.3: "Tensile test (does not apply if test cannot be performed on the device). This test is designed to test the strength of the firearms safety device utilizing a pulling action. Support the firearm and firearms safety device in a fixture designed to enable application of forces in tension along a central axis of the mating locking components of the firearms safety device. Apply 1,000 newtons (225 pounds force) of forces slowly slong the central axis of the firearms safety device locking components without interfering or gatting support to either mating locking components of the firearms safety device. For firearms safety devices that have clamping components, specific fixtures may be required to allow application of the required force to the individual components. Failure occurs if the firearms safety device is disabled or if the firearm is capable of firing during the test. For instance, if the firearms safety device separates far enough to allow for the discharge of the firearm while manipulating the trigger".

This test does not apply to the ISS device and will not be tested. In the case of the ISS, the plug pulling test (test number 6) will achieve the same results as the tensile test and will suffice to provide the necessary data to determine a pass/fail scenario.

4.) §977.45, subsection c.4: "Shock test (does not apply if test cannot be performed on the device). This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter ± one centimeter (39.4 inches ± 0.4 inches) five times to the top of the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool (chucked blade-type tool should be crafted from the shank of a screwdriver with a ½ to 5/8-inch (.63 to 1.6 centimeter) flathead end). Additionally, using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter (39.4 inches), five times to the top of the firearms safety device body using a chucked steel rod tool. Failure occurs if the firearms safety device is disabled by the shock test. Failure also occurs if following the shock test, subsequent manipulation with an 8 to 10-inch (20.3-25.4 cm) long screwdriver with a ¼ to 5/8-inch (.63 to 1.6 centimeter) flathead end allows the tester to discharge a primed case".

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This test will be conducted on the ISS device. To complete this test, a shock impact fixture will be required and must be fabricated. It is assumed, although not stated in the regulations, that the shock impact fixture should be built in accordance with ASTM specification F883-97, "Standard Performance Specification for Padlocks".

A different problem with this test is that there is no definition included in the regulations which define the dimensional requirements of a "chucked steel rod tool". Furthermore, the shock fixture which is described and presented in the ASTM specification does not allow for the lock to be "aligned to impinge and penetrate the locking keyway" and there is no reference for which part of the firearms safety device would represent the "top". This is particularly of interest with the ISS device, as the "top" could constitute the top of the firearm or the argument can be made that the "top" is the keyway itself, inline with the device.

The results of this test will include detailed information as to the alignment procedures and the dimensional characteristics of the tools used to impinge on the ISS device.

5.) §977.45, subsection c.5: "Shackle or cable cutting test (does not apply thest cannot be performed on the device). This test is designed to determine the firearms safety device resistance to catting forces of 4,450 newtons (1,000 pounds force) for solid metal shackles or with hand forces of 445 newtons (100 pounds force) for cables. The shackle of the firearms safety device (if so equipped) shall withstand cutting through when a blade made of steel, hardened to a minimum hardness of Rc 50, is used in conjunction with the blade positioning holder of the shackle cutting fixture. The shearing assembly must then be placed in a tensile loading device having a compression load capability and compressed with a force of 4,450 newtons (1,000 pounds force). See the ASTM F883-97 standard for details to build a shackle cutting fixture (this document is incorporated by reference into these regulations). The cable of the firearms safety device (if so equipped) shall withstand cutting through with nine-and-one-half (9%)-inch lineman pliers with a force of 100 pounds (445 newtons) for two minutes with the firearms safety device supported on both sides of the point of the shear cut with allowance for blade clearance. Failure occurs if the firearms safety device is disabled."

This test does not apply to the ISS device and will not be tested. The ISS device does not contain a shackle nor a cable.

6.) \$977.45, subsection c.6: "Plug pulling test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 (0.161 inch, 0.41 centimeter) diameter drill bit and insert a self tapping screw of size AB 12 at least 19 millimeters (0.75 inches) deep. Apply a required tension of 1,000 newtons (225 pounds force) axially between the case and installed screw. Failure occurs if the firearms safety device can be opened by manipulation with an 8 to 10-inch (20.3 to 25.4 cm) long screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway at the conclusion of the test. Failure also occurs if the firearms safety device is disabled".

This test will be conducted on the ISS device.

7.) §977.45, subsection c.7: "Plug torque test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Install the firearms safety device in a rigid fixture such as a vice to support it firmly but not restrict free rotation of the plug in the cylinder. Insert a

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screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway, so that a torque load of ten newton-meters (89 pounds force-inches) can be applied to the plug. Failure occurs if the firearms safety device is disabled".

This test will be conducted on the ISS device.

8.) §977.45, subsection c.8: "Sawing test (does not apply if test cannot be performed on the device). Sawing tests shall be performed using a sawing machine or hand held saw and appropriate fixtures, to hold the device steady while sawing, to determine the firearms safety device resistance to sawing of exposed components, including cables, that would result in removal of the firearms safety device or render it disabled. The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch (2.54 centimeters) with a constant vertical downward force of ten pounds (44.5 newtons). The test shall consist of 60 cutting cycles per minute for two minutes by sawing machine or 120 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of one 6-inch forward and one 6inch backward cutting motion. Failure occurs if the firearms safety device is disabled".

This test will be conducted on the ISS device. It is unclear in the test description if the sawing test is intended to saw on the firearms safety device directly or to saw directly on the firearm in an attempt to disable the firearms safety device. The testing procedure willing be interpreted per the worst case and the testing will consist of sawing directly on the firearm to attempt to disable the ISS.

9.) §977.45, subsection d: "In addition to the tests specified in subsection (c) of this section, the Certified FSD Laboratory shall perform the following lests on a model of each frearms safety device in which the firing chamber of the firearm is capable of accommodating a primed case with the firing chamber closed and the firearms safety device properly installed, that is submitted to the laboratory for testing pursuant to these regulations. This requirement does not apply to a firearms safety device that prevents access to the firearm by fully containing and enclosing the firearm (lock-box type devices):

(1) (Utilize truew firearms safety device). The firearms safety device shall be activated in accordance with the manufacturer's instructions as specified in paragraphs (6), (9), and (10) of subsection (b) of this section. The firearm shall be placed in a drop fixture capable of dropping The firearm from a drop height of one meter \pm one centimeter (39.4 inches \pm 0.4 inches) onto a slab of soncrete having minimum dimensions of 7.5 centimeters X 15 centimeters X 15 centimeters (Linches Afrinches X 6 inches). The drop distance shall be measured from the lowermost portion of the weapon to the top surface of the slab. The firearm shall be dropped from a fixture and not from the hand. An approved drop fixture is a short piece of string with the firearm attached at one end and the other end held in an air vice until the drop is initiated. The firearm shall be dropped in the following orientations:

(A) Normal firing position with the barrel horizontal.

(B) Upside Down with the barrel horizontal.

(C) If the firearm is a handgun, on the grip with the barrel vertical.

(D) On the muzzle with the barrel vertical.

'(E) On either side with the barrel horizontal.

(F) If there is an exposed hammer or striker, on the rearmost point of the device,

otherwise on the rearmost point of the weapon.

(2) At the conclusion of the drop test, the tester shall attempt to fire the firearm in an attempt to discharge the primed case. Failure occurs if the firearm can be operated manually, if a primed case is discharged during any of the drop tests, or if the firearms safety device is disabled following any of the orientation drop tests".

The test will be conducted on the ISS device. This test is similar to the SAAMI drop testing procedures with the exception that the firearms is to impact a concrete slab in this test rather than an 85 durometer mat in the SAAMI test. This test will require complete

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firearms and a number of extra stocks on-hand to complete the test. There is no provision in the regulations which state that destruction of the stock without disabling the firearms safety device denotes that the device has passed the test.

- 10.) §977.45, subsection e: "In addition to the tests specified in subsection (c) of this section, the Certified FSD Laboratory shall perform the following tests on a model of each firearms safety device that fully contains and encloses the firearm (lock-box type devices) that is submitted to the laboratory for testing pursuant to these regulations:
 - (1) (Utilize a new firearms safety device) The firearms safety device shall be placed in a drop fixture capable of dropping the device from a drop height of one meter \pm one centimeter (39.4 inches \pm 0.4 inches) onto a slab of concrete having minimum dimensions of 7.5 centimeters X 15 centimeters X 15 centimeters X 6 inches X 6 inches X 6 inches). The drop distance shall be measured from the lowermost portion of the firearms safety device to the top surface of the slab. The firearms safety device shall be dropped in the following orientations:
 - (A) With the locking mechanism facing directly up.
 - (B) With the locking mechanism facing directly down.
 - (2) Failure occurs if the firearms safety device is disabled or the firearm contained within the enclosed container discharges".

This test does not apply to the ISS device and will not be tested. The ISS device does not meet the initial criteria of this test procedure of fully containing and enclosing the firearm.

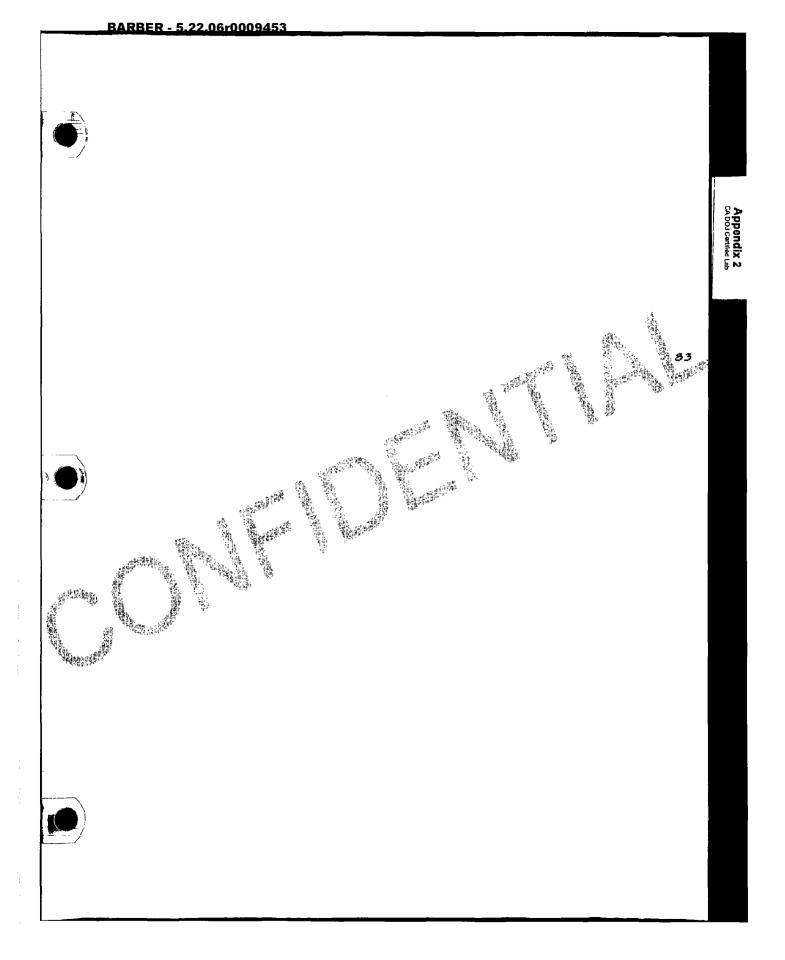
APPENDIX A

California Department of Justice (DOJ), Firearms Division
Assembly Bill (AB) 106
Revision 2
May 29, 2001



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3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

Remington Arms Mr. Marlin Jiranek Research & Development 315 W. Ring Road Elizabethtown, KY 42701

August 3, 2001

Dear Mr. Jiranek,

In response to your request, I offer this price quote on Firearm Safety Device Testing to California Penal Code Section 12088 and regulation section 977.45, Chapter 2.6, Division 1, Title 11.

USTL will test the Remington products to the applicable test as required by the regulation above.

USTL will need three complete rifles of shotguns that have the safety device installed and an additional three (2) device that can be installed in the rifle or shotgun when the others are damaged in testing.

After successful completion of the testing, one of each type of system will be sent to California DOI, the other will be retained by LESTL. The remaining safety devices will be returned to Remington Arms.

Shipping to USTL and Catifornia DOJ, is to be provided by Remington Arms, or we will bill you for the shipping tharges:

The fee for the testing is \$800.00 per model. Terms are Net 30 days from invoice date.

Should you have any further questions, please feel free to give me a call. Our current FFL is enclosed.

Sincerely

Richard W. Mouser

President

DEPARTMENTOR THE TREASURY - BUREAU OF ALCOHOL. TOBACCO AND FIREARMS

CENSE (18 U.S.C. Chapter 44)

In accordance with the provisions of Title I. Gun Control Act of 1968, and the regulations issued thereunder (27 CFR Part 178), you are licensed to engage in the business specified in this license, within the limitations of Capter 44. Title 18. United States Code, and the regulations issued thereunder, until the expiration date shown, 558, WARNINGS and "NOTICE" on reverse,

DIRECT ATF CORRESPONDENCE CHIEF. NATIONAL LIGENSING CENTER ATF. P.O. Box 299& Atlanta, GA.30301-2994 DIGENSE 5-48-17

5-48-173-01-3G-00053

EXPIRATION ...

July 1, 2003

NAME

UNITED STATES TEST LABORATORY

3448 N EMPORIA WICHITA, KS:67219-

YPE OF

01-DEALER IN FIREARMS OTHER THAN DESTRUCTIVE DEVICES

CHIEF, NATIONAL UCENSING CENTER

PURCHASING CERTIFICATION

I certify that this is a true copy of a licenses.

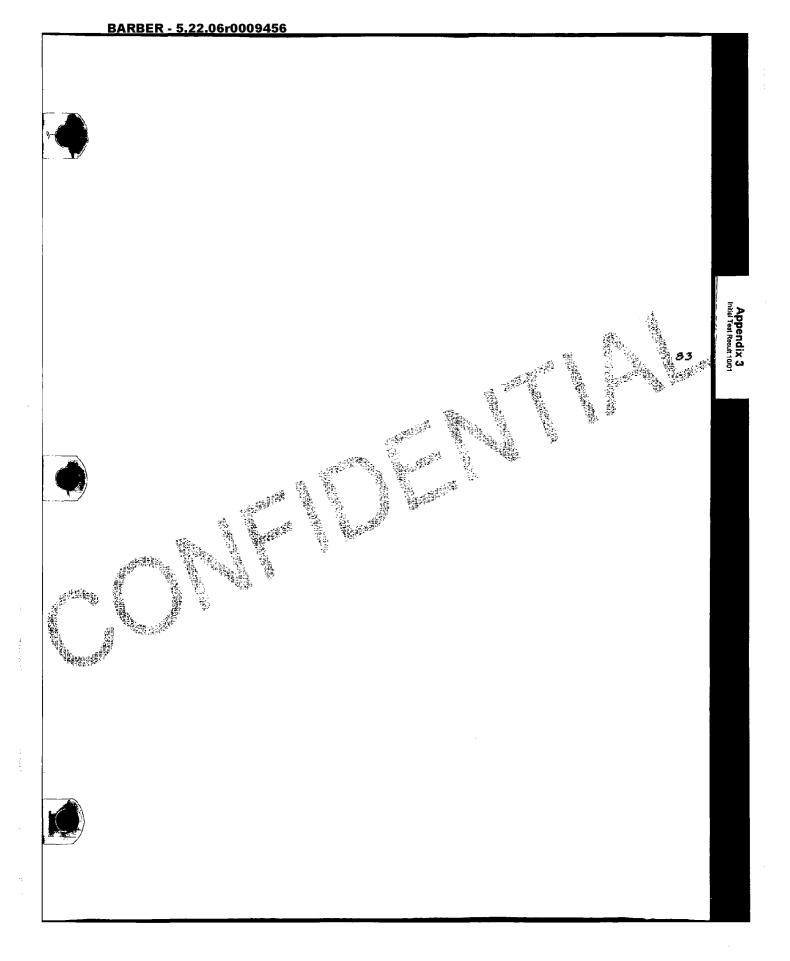
(SIGNATURE OF LICENSEE)

The licensee named herein shall use a reproduction of this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee as provided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature. LICENSEE

MÕUSER, RICHARD W UNITED STATES TEST LABORATORY 3448 NEMPORIA WICHTA, KS 67219-

ATE FORM \$ 15310 TO 18/911 PREVIOUS FOITION IS ORSOLETE





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Remington® ISS / EtronX Testing

(Integrated Security System)

Per

California D.O.J. Lock Regulations

Proposed addition of Chapter 12.6, \$977.10 - \$977.90 of Title 11 of the California Code of Regulations, pursuant to §12087.0 -- §12088.9 of the Penal Code.

ST REPORT

written by:

Marlin R. Jiranek, II

Marlin R. Jiranek, II Research Engineer

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October 12, 2001 Remington Project: 241315

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SCOPE

Pursuant to the Aroner-Scott-Hayden Firearms Safety Act of 1999, which added to the California Penal Code section 12087 et. Seq., the California Department of Justice (CA DOJ) was missioned with creating a list of standards and certifying independent test laboratories to test firearms safety devices to this list of standards, which then could become eligible for approval as a CA DOJ certified firearms safety device. Section 12088.1, section a, reads as follows:

12088.1. Effective January 1, 2002:

(a) All firearms sold or transferred in this state by a licensed firearms dealer, including private transfers through a dealer, and all firearms manufactured in this state, shall include or be accompanied by a firearms safety device that is listed on the Department of Justice's roster of approved firearms safety devices.

The purpose of this test was to determine if the current Remington Integrated Security System (ISS) and EtronX product would satisfy the requirements of the CA DOJ for firearms safety devices, which could give Remington a competitive advantage in the state of California, as it's product would not have to be transferred or sold with an additional gun lock. Additionally, if the product were to fail the CA DOJ testing, observation of the testing procedure could be used to develop an engineering change, which may allow the ISS or EtronX keylock to pass the CA DOJ testing.

PROCEDURE

All of the current ISS systems and the EtronX key-switch safety systems were tested per the proposed CA DQL firearms safety device standards by a certified testing laboratory. In the case of the ISS testing, three firearms and two extra devices were required by the testing laboratory. For the EtronX system, four complete firearms were required for testing. In all cases, WIP product was utilized to minimize the cost incurred by Remington. The following is a list of materials that were required by the testing laboratory to complete the tests:

3 M/700 Rifles

2 M/700 Bolt Assy.

3 M/597 Rifles

2 M/597 Fire-control Assy.

3 M/870 Express Shotguns

2 M/870 Syn. Fire-control Assy.

4 M/11-87 Al Fire-control Assy.

4 M/710 Rifles

4 M/700 EtronX Rifles

The testing was performed in its entirety by a testing laboratory certified by the CA DOJ. The principle contact information for the testing laboratory is as follows:

United States Test Laboratory

Richard W. Mouser

President

Wichita, KS 67219

Phone: (316) 832-1600 FAX: (316) 832-1602

3448 North Emporia Street

FFL No.:

5-48-173-01-3G-00053

Exp. Date: July 1, 2003

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October 12, 2001 Remington Project: 241315

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Representatives from Remington Arms Company, Inc. were present for the testing process. These representatives included Dale Danner, Director of Research & Technology, and Marlin Jiranek, Research Engineer.

SUMMARY

There are ten tests specified in the CA DOJ standards for the certification of firearms safety devices. Each of the tests was performed if it could be applied to the device. The results were that the M/700 passed the testing while all of the other variants failed at least one portion of the test standards. Table 1 presents a summary of the tests and the results of each of the safety devices tested.

					Res	ults		188
Test No.	Test Description	DOJ Regulation	Fire Control Type					(4)
			71 0 Bolt	700 Bolt	597 Housing	870 Syn. S Housing	870 Al Housing	700 EtronX
1	Picking / Manipulation Test	977.45 subsection c.1	Pass	Pass	Pass ":	Pass	Not Tested	Pass
2	Forced Removal Inspection	977.45 subsection c.2	Pass	Pass	Pass	Pari	Not Tested.	Pass
3	Tensile Test	977.45 subsection c.3	N/A	N/A	N/A	N/A	N/A	N/A
4	Shock Test	977.45 subsection c.4	Pass	Pass 7	FAIL	Pass	Not Tested	VAIL
5	Shockle/Cable Cutting Test	977.45 subsection c.5	N/A	N/A	N/A		N/A	N/A
6	Plug Pulling Test	977.45 subsection c.6	Bank	Pass 36	Pass	Pass	Not Tested	Pass
7	Plug Torque Test	977.45 subsection c.7	Pass	Pass 2	Paty 1	Pass	Not Tested_	FAIL
8	Sawing Test	977.45 subsection c.8	FAIL	Pass	FAIL	FAIL	FAIL	N/A
9	Drop Testing (Firearms)	977.45 subsection 6	Pass	- N/A	? Pass	Pass	Not Tested	Pass
10	Drop Testing (Enclosures)	977.45 shipsection c	N/A	N/A	N/A	N/A	N/A	N/A

Table 1. Overall testing results of the CA DOJ Firearms Safety Device testing for each of the Remington devices tested.

The test report generated by the testing laboratory for each of the systems tested is located in the Appendix of this report. As the M/700 passed the required testing, the test laboratory has kept one of the M/700 test rifles for their records (E6415859) and has sent one of the M/700 test rifles onto the CA DOJ for their archives (E6588181). All other test finearms and test components were returned to the Remington R&D facility.

The Results section of this report briefly details all of the tests that were performed and then highlights the failures or each of the models tested.

RECOMMENDATIONS

The next step for the M/700 and M/Seven product is to self certify all standard production M/700 and M/Seven variants of the rifle for sale in the state of California. Appendix E contains a copy of the test lab report of the M/700 results and Appendix F contains a copy of the letter that was sent to the CA DOJ by the test laboratory indicating that the M/700 ISS passed the testing. This self certification is to be done through the California Department of Justice and the list or statement describing the firearms on which device will work should be made through the following contact:

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BARBER - 5.22.06r0009460

Remington Arms Company, Inc.

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Research and Development Technical Center Elizabethtown, Kentucky

State of California - Department of Justice

Firearms Division

Steven Teeters Phone: (916) 263-0849

PO Box 160487 Sacramento, CA 95816-0487

FAX: (916) 263-0676

Appendix G contains a FAX transmission that was received by Remington from Steven Teeters on behalf of the CA DOJ with instruction on self-certifying additional firearms for use with the ISS device. The self-certification procedure is currently in process within Remington corporate activities.

There are some potential remedies to address the failures of the other tested safety systems. These possible solutions should be further investigated to validate the concept of each suggestion and to determine as associated cost with implementing the solution across the board. These potential solutions are outlined by firearm model.

EtronX Fire Control

This safety key-switch system failed the Shock Test and the Plug Torque Test and passed the Drop Test on a technicality. A solution to address the failures that occurred in the Shock Test and the Plug Torque Test is to purchase a more robust key-switch to place into the firearm.

During the drop testing, the lock key-switch actually fell out of the stock, exposing the two wires connected to the switch. To address the issue of "hot-wiring" exposed wires, the technicality that allowed the passing of the drop test, there are two possible solutions. The first is to install the switch in a more permanent and secure manner. This may be accomplished by the use of epoxy. The second, and more involved, solution is the placement of a resistive shunt into the key-switch and a change to the software. In this new system, the key switch would be interpreted by the gun as being in an "off" state if there is no connection or if the connection has no resistance. The system would look for the required resistance to be present that would signal an "on" condition.

Common Fire-Control I.S.S.

This fire control, both in the synthetic and the aluminum models, failed the Sawing Test. This could possibly be remedied by drilling and inserting a 0.9" long hardened steel pin in the fire-control housing just behind the I.S.S. tumbler. The pin would be inserted from the top of the fire-control and would be case hardened to a surface hardness of HR15n 88 minimum. This hardness level is significantly harder that the carbon steel hacksaw blade used in the testing, subsequently, the saw will cut to the pin and not be able to continue through the fire-control housing.

597 Fire-Control I.S.S.

The M/597 ISS device failed the second portion of the Shock Test and the Sawing Test in a similar fashion as the common fire-control. Most likely, the failure in the shock test was caused by debris in the safety channel, although this hypothesis is un-confirmed. A

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potential solution to the Sawing Test would be similar to the solution presented for the common fire-control ISS device and would consist of inserting a hardened pin into the fire-control housing behind the ISS tumbler. This pin may be inserted from the top of the fire-control or possibly from the bottom of the trigger bow. Due to the unique M/597 geometry, this modification may be more difficult to perform in production than the suggested common fire-control modification.

710 Fire-Control I.S.S.

The M/710 I.S.S. device failed the Sawing Test. Most likely, this failure was caused by the hardness of the M/710 I.S.S. tumbler being softer than the steel hacksaw blade. This may possibly be remedied by changing the material and hardness of the M/710 system to mirror that of the M/700 system. This would consist of a material and heat treatment change to MPIF MIM-2200, carburized to a surface hardness of HR15n 88-92 (HRc 55-65) from MPIF MIM-4605, through hardened to a hardness of HRc 42-47.

RESULTS

The Results section of this report is broken down into six sections. The first section provides a description of each of the tests that were performed on the firearms safety devices by the certified testing laboratory. The subsequent sections detail the failures of each of the Remington devices that did not pass all of the testing requirements.

TEST DESCRIPTIONS

• Picking/Manipulation Test

During this test, the locking device was manipulated for a period of two minutes each with a "juritoe" paper clip, a no. 1 sized paper-clip, and a 1.4mm jewelers flathead screwdriver. A time was set for two minutes for each tool and the tester simply tried to "pick" the ISS tumbler or the EtronX keyway for the specified time period.

Forced Removal Inspection

This was not a test at all, but a visual inspection of the firearm safety device and general discussion as to how it could be defeated among several testers at the certified laboratory.

Tensile Test

This test was not performed on any of the devices because it is not possible to grip onto the safety device and apply the required load.

Shock Test

This test was performed by placing the firearm under a drop apparatus with the key-way of the locking device facing upwards. A 1/4" flat blade screwdriver bit was then placed

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directly on the keyway. A 2.2-pound weight was dropped onto the screwdriver bit apparatus from a height of 1 meter, five times in succession. After five drops, the safety device was manipulated with a screwdriver in an attempt to overcome the device. The device failed if the firearm could be fired after the Shock Test and manipulation with the screwdriver.

In the case of the trigger block type ISS devices (common and 597), the test was continued by striking the opposite side of the safety device with a punch type tool apparatus in the same manner as was used with the ¼" flat blade screwdriver bit apparatus. Again, the device would fail if the firearm could be fired after this drop test and manipulation with a screwdriver.

Shackle/Cable Cutting Test

This test was not performed on any of the devices because the safety systems are internal to the firearms and do not have any shackles or cables.

• Plug Pulling Test

This test was performed by attempting to drill a hole with a number 20 sized high speed steel drill bit into the keyway of the safety device either 0.75° deep or through the device, whichever is smaller. After the hole is drilled, a size AB 12 self-tapping screw is inserted into the hole. A tension force was then applied, up to 225 pounds, on the exposed screw in an attempt to pull the keyway from the safety device. The device would fail if either the keyway was removed and the lock could be manipulated with a small screwdriver to allow the firearm to fire or if the safety device was damaged during the test preparation in such a manner that the device could be manipulated with a screwdriver allowing the firearms to fire.

Plug Torque Test

This est was performed by inserting a small screwdriver bit into the locking keyway of the safety device and then applying a torque load of 89 inch-pounds to the screwdriver bit. The device would fail if the locking mechanism was overcome allowing the firearm to be fired.

• Sawing Test

This test was performed by utilizing a standard hacksaw equipped with a standard carbon steel blade (32 teeth / inch) and a ten pound weight strapped to the top of the hacksaw to provide a constant downward force on the blade during the cutting cycle. The number of cutting cycles was limited to 120 cycles, each cycle consisting of one 6-inch stroke forward and one 6-inch stroke rearward. In the case of the ISS devices, as the devices were integral to the firearm, the sawing was done directly on the firearm in an attempt to remove the ISS tumbler. Failure of the device occurred if, within the 120 strokes, the

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safety device could be removed or disabled in such a manner that would allow the firearm to fire.

Drop Test (Firearms)

This test was only performed if a live round of ammunition could be loaded into the chamber of the firearm while the safety device was properly installed and engaged. The testing consisted of engaging the firearm safety device, loading a primed case into the chamber of the firearm, closing the chamber, disengaging any external safeties on the firearm, and making the firearm ready to fire. The firearm was then dropped a total of 6 times in five orientations from a height of 1 meter onto a small slab of concrete. The five orientations were:

- (1) Normal firing position; barrel horizontal
- (2) Upside down; barrel horizontal
- (3) Muzzle down, barrel vertical
- (4) Muzzle up, barrel vertical (2 times)
- (5) On either side, barrel horizontal

Failure of the device occurred if, during the course of the dropping portion of the test the firearm can be discharged without unlocking the safety device.

• Drop Test (Enclosures)

This test was not performed on any of the devices because the safety devices do not enclose the firearm.

ETRONX RESULTS

The EtronX product passed all of the tests with the exception of the Shock Test and the Plug Torque Test. A copy of the official report of the results as generated from the testing laboratory is located in Appendix A. While the device passed the Plug Pulling Test and the Drop Testing, these two tests could be subject to interpretation by the CA DOJ. For reference, Figure 1 presents an image of a normal key-switch device currently used in the EtronX product. This particular key-switch is in a prototype M/700 EtronX Hunting rifle, although all of the key-switches are identical components.

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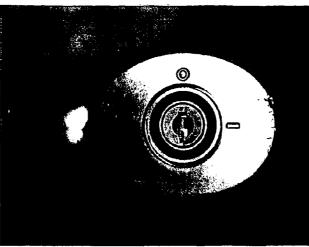


Figure 1. Image of a EtronX key-switch device as used in the current manufacturing process. This specific device is installed on a prototype M/700 EtronX Hunting version.

During the Plug Pulling Test, the keyway plug was pulled from the key switch assembly with only 30.3 pounds of force. However, because of the design of the switch, the electrical connection cannot be easily established when the keyway is removed. Figure 2 presents an image of the removed keyway after the Plug Pulling Test was completed.

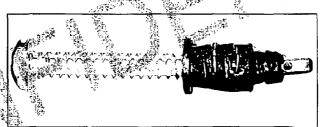


Figure 2. Image of the EtronX keyway after removal during the Plug Pulling Test.

Note the small silver ball located near the end of the keyway (adjacent to the synthetic protruding end on the right side of the image).

The key-switch works by having two electrically connected balls in the keyway mechanism which contact mating surfaces to complete the electrical connection when the keyway is turned to the "on" position. When the keyway was removed from the keyswitch body, this electrical bridge was also removed and no electrical connection could be established, regardless of the position of the key-switch body. However, it may be possible to establish an electrical connection using a properly sized screwdriver inserted into a specific location in the key-switch body after removal of the keyway, effectively short circuiting the key-switch, allowing the gun to fire.

Figure 3 presents an image of the key-switch with the keyway removed, after completion of the Plug Pulling Test. In this image, the mating electrically conductive surfaces (copper colored) can be seen at the bottom of the key-switch body. If an electrical

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connection can be established between these two surfaces, the key-switch can be effectively by-passed.

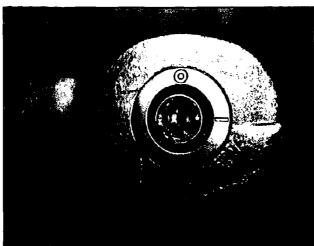


Figure 3. Image of the EtronX key-switch body after removal of the keyway by the Plug Pulling Test procedure.

During the Drop Test, the key mechanism was dislodged from the hand-grap portion of the stock and the wires were exposed. The product passed the test even though the wires were exposed, because there was no stipulation in the test regulations that would allow the testing laboratory to cut, strip, and twist the wires together, in effect by-passing the key-switch, which would have defeated the key-lack safety device.

EtronX Shock Test Failure

The Etrop X key-switch device failed during the shock testing as the ¼" flat blade screwdriver tip was driven deep into the keyway. After the five impacts, the screwdriver blade was easily turned by hand and the firearm was placed in the ready state, fully capable of firing a loaded round. Figure 4 presents an image of the keyway after the Shock Testing was completed.

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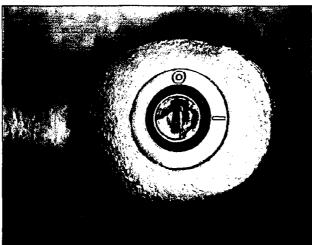


Figure 4. Image of the EtronX key-switch after the shock testing was completed.

EtronX Plug Torque Test Failure

The EtronX key-switch device failed during this testing procedure at a level below 89 inch-pounds. This failure resulted because the key-switch was never intended to withstand this level of torque loading.

COMMON FIRE-CONTROL RESULTS

The synthetic common fire-control (M/870) product passed all of the tests with the exception of the Sawing Test. A copy of the official report of the results as generated from the testing labelatory is located in Appendix B. The Sawing Test was performed on the synthetic and the aluminum versions of the common fire-control. The synthetic common fire-control version tested was a M/870 express fire-control and the aluminum body version was a M/11-87 fire-control.

The heat treatment and resulting hardness of the ISS tumbler accounted for the device doing very well in the testing that required the ISS tumbler to be deformed or manipulated, such as the Shock Test and the Plug Pull Test. While the ISS tumbler is manufactured from a low strength alloy (MIM Iron 2% Ni), it is subsequently case hardened to a surface hardness of HR 15n 88-92, which is in excess of HRc 55. This hardness is slightly harder than a screwdriver bit, standard high speed drill bit, and standard carbon steel hacksaw blade.

Figure 5 presents an image of ISS device installed in the fire control after the Shock Test was completed. In this image, indents on the surface of the tumbler can be seen on the long portion of the "J" channel that resulted from the impact of the flat bladed screwdriver bit directly onto the ISS tumbler.

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Figure 5. Image of the ISS device after the Shock Test was completed. Note the indentation on the long leg of the "J" channel from the impact with the flat bladed screwdriver bit.

Figure 6 presents an image of the ISS device after the "I" channel was attempted to be drilled for the Plug Pulling Test. The result was that the hardness of the ISS tumbler effectively dulled the drill bit and there was no resulting penetration into the tumbler.

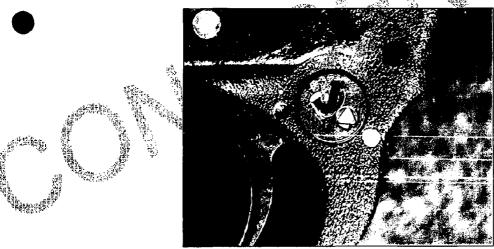


Figure 6. Image of the ISS device after unsuccessful drilling on the "J" channel in preparation for the Plug Pulling Test.

Common Fire-Control Sawing Test Failure

The common fire-control failed the Sawing Test by removal of the ISS tumbler completely from the fire-control housing. This test was performed on the synthetic housing version two times and on the aluminum housing version two times. Out of a total of four tests, the safety device failed three times. One of the cuts was slightly

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misplaced on one of the aluminum fire-controls which resulted in the fire control remaining intact after all 120 strokes were used. The two synthetic housing fire-controls failed after 78 and 41 cutting strokes. The aluminum housing fire-control failed after 44 cutting strokes. Figures 7 and 8 present images of the synthetic and aluminum housing ISS devices respectively after failing the Sawing Test.

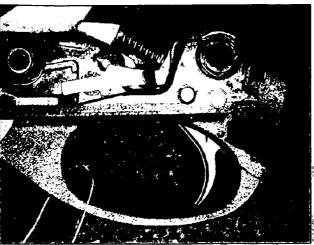


Figure 7. An image of the synthetic housing version of the currinon ISS safety device after failing the Sarving Test.

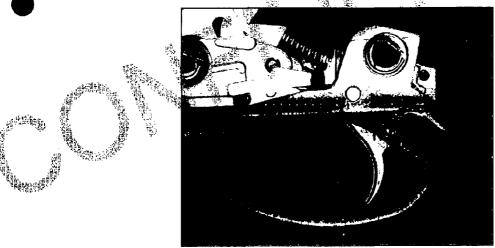


Figure 8. An image of the aluminum housing version of the common ISS safety device after failing the Sawing Test.

M/597 RESULTS

The M/597 fire-control product passed all of the tests with the exception of the Shock Test and the Sawing Test. A copy of the official report of the results as generated from the testing laboratory is located in Appendix C.

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M/597 Shock Test Failure

The M/597 ISS failed the second portion of the Shock Test, in which a rod type tool, similar to a punch tip, was impacted with a two pound weight dropped from a height of 1 meter, five times onto the non-"I" channel side of the I.S.S. tumbler. This action pushed the tumbler partially through the fire-control housing. After the impacts, the tumbler was turned using a standard screwdriver and the firearm could be made to fire.

M/597 Sawing Test Failure

The M/597 ISS failed in a manner consistent with the common fire-control Saw Test failure. The ISS tumbler was completely removed from the fire-control housing using 33 cutting cycles. Figure 9 presents an image of the M/597 housing after the Saw test failure.

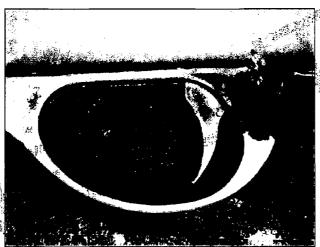


Figure 9. An image of the M/597 housing after the removal of the ISS tumbler during the Saw Test.

M/710 RESULTS

The M/710 product passed all of the tests with the exception of the Sawing Test. A copy of the official report of the results as generated from the testing laboratory is located in Appendix D. While the device passed the plug pulling test, this was most likely due to the lack of new drill bits at the certified testing laboratory at the time of testing. The material and hardness of the M/710 ISS tumbler is different than all of the other ISS devices. While the material is suitable for the safe operation of the ISS device, it is softer than a drill bit or a standard carbon steel hacksaw blade. The M/710 ISS tumbler may be as much as 12 HRc points softer than the corresponding M/700 tumbler.

Table 2 presents the materials, heat treatments, and final part hardness' of all of the ISS device tumblers. It should be noted that the material designation "MIM Iron 2% Ni"

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contains no material specifications for use outside of the Remington Arms Company and that this designation should either be re-stated as the industry standard material (MPIF MIM-2200) or a Remington material specification should be created which contains the material requirements and limits.

	REMI	NGTON I.S.S. DE	VICE MATERI	AL SPECIFICATIONS	
MODEL	PART NAME	DRAWING NO.	MATERIAL	HEAT TREATMENT	HARDNESS
Common	Safety - Right Hand	D-201212	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 88-92
700 / Seven	Lock Tumbler Blank	D-210222	MIM Iron 2% Ni	None Specified	None Specified
700 / Seven	Lock Tumbler	C-109540	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 88-92
597	Safety - Right Hand	D-201216	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 85-91
710	Lock Tumbler Blank	D-300420	MPIF MIM-4605	Oil Quench & Temper	HRc 42-47 or Equivaler

Table 2. Listing of all of the ISS device tumbler materials, heat treatments, and final part hardness'.

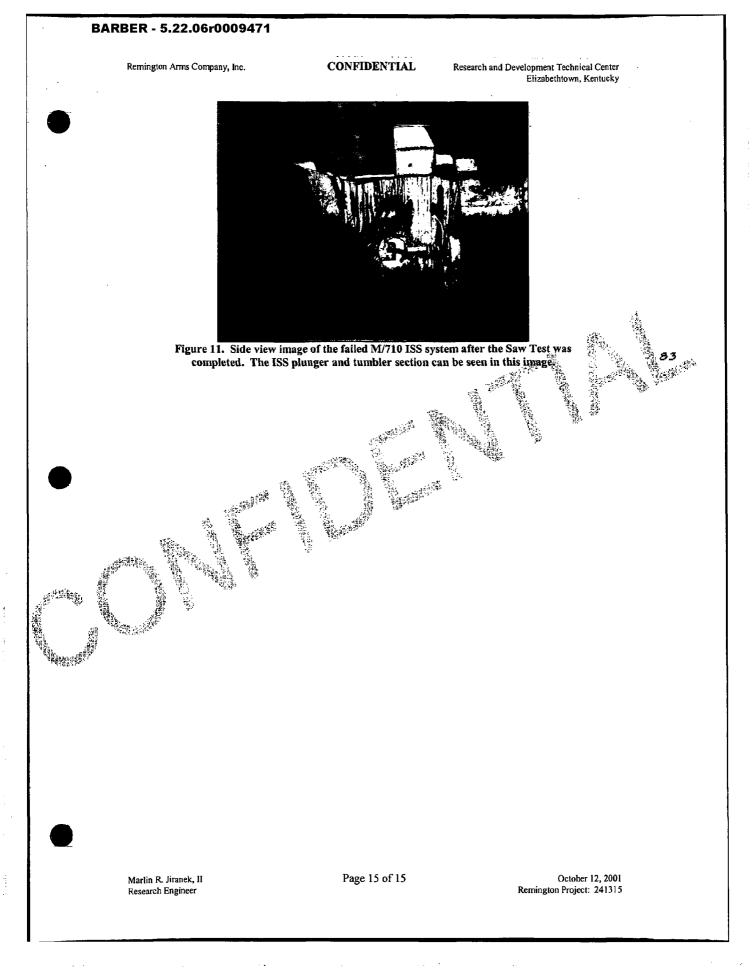
M/710 Sawing Test Failure

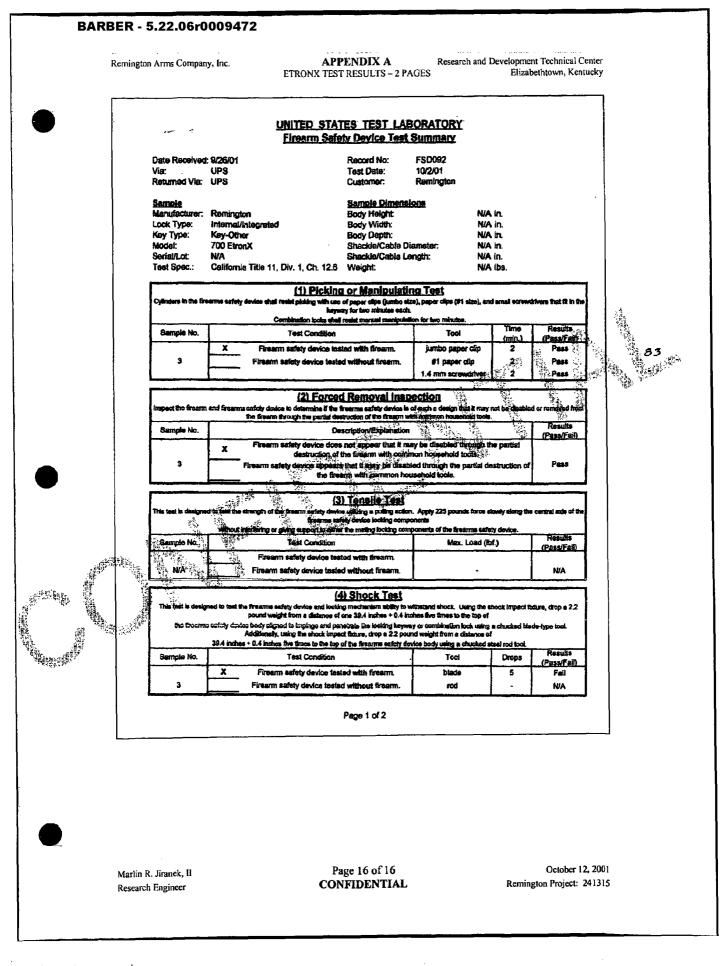
The M/710 failed the Sawing Test because the saw blade cut through the I.S.S. numbler and allowed the manipulation of the I.S.S. plunger and timbler using a standard flat blade screwdriver. In this manner, the remaining portion of the timbler was easily rotated and the rifle allowed to be placed in the fire state, thus failing the test. Figure 10 presents a top image of the failed bolt assembly after the Saw Test was completed. Figure 11 presents an image of the side view, showing the exposed "F" channel and I.S.S. plunger after the Saw Test was completed. It is suspected that this failure would not have occurred if the tumbler was hardened to a higher hardness similar to the M/700 tumbler.



Figure 10. Top view image of the failed M/710 ISS system after completion of the Saw Test.

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BARBER - 5.22.06r0009474 APPENDIX B Research and Development Technical Center Remington Arms Company, Inc. M/870 TEST RESULTS - 4 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 9/26/01 Record No: FSD094 Via: UPS Test Date: 10/2/01 Returned Via: UPS Customer Reminator Sample Sample Dimensions Manufacturer: Remington N/A in. Body Height: Lock Type: Body Width: N/A in. Intamal N/A in. Key Type: Key-Other Body Depth: N/A in. Model: Shackle/Cable Diameter. 870 Serial/Lot Shackle/Cable Length: N/A in. N/A Test Spec.: California Title 11, Div. 1, Ch. 12.6 Weight: N/A lbs. (1) Picking or Manipulating Test shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small sor keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes Sample No. **Test Condition** Tool (Pass/Fall X Firearm safety device tested with firearm. jumbo papar clip 2 Page Firearm safety device tested without firearm. #1 paper clip (2) Forced Removal Inspection The firement through the partial destruction of the frequency for the firement through the partial destruction of the frequency frequency from the firement through the partial destruction of the frequency from the frequency from the firement through the partial destruction of the frequency from the firement of the frequency from the firement of the Desults Description/Explanation Firearm safety device does not appear that it may be disabled through the partial x destruction of the fingurn with common household tools m safety device appears that it may be disabled through the partial destruction of Pass the firearm with common household tools. (3) Tensile Test m tarety device tribing a pusing action. Apply 225 pounds force do ng or giving support to either the mating locking comp ords of the firearms safety de-Results emole No. **Test Condition** Max. Load (lbf.) (Pass/Fail) Firearm safety device tested with firearm. WA Firearm safety device tested without firearm. N/A (4) Shock Test s tirearms suitsty device and locking mechanism ability to withstand shock. Using the e pound weight from a distance of one 19.4 inches + 0.4 inches five times to the top of on body aligned to texplage and penetrate the locking keyway or combination lock using a chi Additionally, using the shock impact flature, drop a 2.2 pound weight from a distance of 39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool Sample No. **Test Condition** Orops Tool (Pass/Fail) X Firearm safety device tested with firearm. hlade 5 Firearm safety device tested without firearm. 5 rod Pass Page 1 of 2 Page 18 of 18 October 12, 2001 Marlin R. Jiranek, II CONFIDENTIAL Remington Project: 241315 Research Engineer

Record No.: F60084 (5) Shackle or Cable Cutting Test This test is designed to determine the firearms eating device resistance to cutting forces of 1,000 pounds force for solid metal elackies or with hand forces of 100 pounds force for cobles. Sample No. Test Condition Max. Load (thi.) Time (s.) Results (Pass/Feil) Firearm safety device tested with firearm. N/A Firearm safety device tested with firearm. N/A This test is designed to test a cylender look's ability to withstand a pulling Test This test is designed to test a cylender look's ability to withstand a pulling grown of size AB12 at least 0.75 inches deep. Apply a required tension of 226 pounds force axially between the case and installed corew. Sample No. Test Condition Max. Load (thi.) Results (Pass/Feil) X Firearm safety device tested with firearm.	Record No: F80064 This hast is designed to determine the finance sealing device between the finance of 100 panels from fine and finance of 100 panels from fine or easily device tested without finance. Sample No. Finance safety device tested without finance. NA. Finance safety device tested without finance. NA. Finance safety device tested without finance. NA. Finance safety device tested without finance. Sample No. Test Condition This test is designed to test a quivaler safety without and speak on the outleys the play from the opticide. Det the tempery with a number 20 deserted of this net heart is self speak on the outleys the play from the opticide. Det the tempery with a number 20 deserted of the number of the API 2 x 1 was 10 5 these self-tempers. Sample No. Test Condition Also, Load (left) Passified This test is desligated to test to safety of evice tested with finance. 2 Finance safety device tested without finance. 3 Finance safety device tested without finance. 4 Finance safety device tested without finance. 1 Finance safety device tested without finance. 3 Finance safety device tested without finance. 1 Finance safety device tested without finance. 1 Finance safety device tested with finance. 1 Finance safety device tested without finance. 1 Finance safety device tested without finance. 1 Finance safety device tested without finance. 1 Finance safety device tested with finance. 1 Finance safety device tested without finance. 1 Finance safety device tested without finance. 2 Finance safety device tested without finance. 3 Finance safety device tested without finance. 1 Finance safety device tested without finance. 2 Finance safety device tested without finance. 3 Finance safety device tested safety finance safety	Re	mington A	Arms Company	, Inc.	- A ī	PPENDIX B	 Research and	Developmen	nt Technical Co	enter
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Sample No. Sections (C) thru (F) do not apply to lock-box type devices. (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up. (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. (C) If the firearm is a handgum, in the party with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (F) Expected harmour or cartion, otherwise on the reasonal point of the weepen. (F) Expected harmour or cartion, otherwise on the reasonal point of the weepen. (F) Expected harmour or cartion, otherwise on the reasonal point of the weepen. (F) Expected harmour or cartion, otherwise on the reasonal point of the weepen. (F) Expected harmour or cartion, otherwise on the reasonal point of the weepen. (B) Upside down with the barrel horizontal. Pass (C) If the firearm is a handgum, of cartion on the graph with the barrel horizontal. Pass (B) C) This could not be completed due to size and hardness of cylinder material. Firearm Used: \$1: C91868XX (12 gs.; 28" barrel), \$2: C87488XX (12 gs.; 28" barrel), \$3: C89415XX (12 gs.; 28" barrel). Sample Description: Internal tocking mechanism constating of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. (D) This test was performed in accordance with the sample in accordance with the specification requirements and the results properly reflect the performance of the listed sample.	Sample No. 3 Sections (C) thru (F) do not apply to lock-box type devices. (PassFall) (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up. Pass (B) used down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) If the firearm is a handgun, on the grip with the barrel vertical. Pass (D) On the muzzle with the barrel vertical. Pass (E) On either side with the barrel horizontal. Pass (F) Expected harmor or differ, otherwise on the resonant path of the weepen. Pass (S)(T) Test could not be completed due to size and hardness of cylinder metarial. Firearm Used: #1: C91868XX (12 ga.; 28" barrel), #2: C87488XX (12 ga.; 28" barrel), #3: C89415XX (12 ga.; 28" barrel). Sample Description: internal focking mechanism consisting of a cylinder lock at trigger guard behind trigger. This lest was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 3448 N. Emporia, Wichita, KS 87219 Fax 316-832-16002			25°C	(5,44) 318, 34,	100 ANS	ANDron Tost				
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(C) If the firearm is a handgun, on the grip with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (E) On either side with the barrel horizontal. (F) Expected harmor or childer, otherwise on the rearmost paint of the weepen. Poss REMARKS/NOTES (B)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: \$1: C91868XX (12 gs.; 28" barrel), \$2: C87488XX (12 gs.; 28" barrel), \$3: C89415XX (12 gs.; 26" barrel). Sample Description: Internal focking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602	(C) If the fiteerm is a handgun, on the grip with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (E) On either side with the barrel horizontal. (F) Expected harmon or childry, etherwise on the rearmont paint of the weapon. Poss REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 ga.; 26" barrel), #2: C87488XX (12 ga.; 28" barrel), #3: C89415XX (12 ga.; 26" barrel). Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger. This fest was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 3448 N. Emporia, Wichita, KS 87219 Fax 316-832-1602		die.		78.8	•		=	-	Pass	
(C) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (F) Expected harmor or critice, otherwise on the rearmost paint of the weepen. (F) Expected harmor or critice, otherwise on the rearmost paint of the weepen. Poss REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 gs.; 28" barrel), #2: C67488XX (12 gs.; 28" barrel), #3: C89415XX (12 gs.; 26" barrel). Sample Description: Internal focking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602	(E) On either side with the barrel vertical. (E) On either side with the barrel horizontal. (F) Expected hammer or chilter, otherwise on the rearment paint of the weapon. Pess REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 ga.; 26" barrel), #2: C87488XX (12 ga.; 28" barrel), #3: C89415XX (12 ga.; 26" barrel). Sample Description: internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 3448 N. Emporta, Wichita, KS 87219 Fax 316-832-1602	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		2	105			-	ectly down.		
(F) Expected hammer or ctrition, otherwise on the rearment paint of the wassen. Pass REMARKS/NOTES (6)(7) Tast could not be completed due to size and hardness of cylinder meterial. Fiream Used: #1: C91868XX (12 gs.; 28" barrel), #2: C67488XX (12 gs.; 28" barrel), #3: C89415XX (12 gs.; 26" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. 10 Table 15 Tast Laboratory Phone 316-832-1600 (16 States 1 est Laboratory Phone 316-832-1600) (16 States 1 est Laboratory Phone 316-832-1600)	(f) Especial hammer or ciritor, dithereties on the rearment patril of the veccon. Poss REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 ga.; 28" barrel), #2: C87488XX (12 ga.; 28" barrel), #3: C89415XX (12 ga.; 26" barrel). Sample Description: internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly United States 1 est Laboratory Phone 316-832-1600 reflect the performance of the listed sample. 3448 N. Emporta, Wichita, KS 87219 Fax 316-832-1600	(2) S	150		(Ref.					Pass	
REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder metarial. Firearm Used: \$1: C91868XX (12 gs.; 28" barrel), \$2: C87468XX (12 gs.; 25" barrel), \$3: C89415XX (12 gs.; 26" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performence of the listed sample. Amodu United States Test Leboratory Prione 316-832-1600 3448 N. Emporia, Wichita, KS 87219 Fax 316-832-1602	REMARKS/NOTES (6)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 gs.; 28" barrel), #2: C87488XX (12 gs.; 28" barrel), #3: C89415XX (12 gs.; 26" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accurdance with the specification requirements and the results properly United States 1 est Leboratory Phone 316-832-1600 reflect the performance of the listed sample. 3448 N. Emporta, Wichita, KS 67219 Fax 316-832-1602	561 1835	337	19.3 19.3							
(6)(7) Test could not be completed due to size and hardness of cylinder meterial. Firearm Used: #1: C91868XX (12 gs.; 28" barrel), #2: C87488XX (12 gs.; 28" barrel), #3: C89415XX (12 gs.; 28" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in eccordance with the specification requirements and the results properly reflect the performance of the listed sample. 316-832-1600 3448 N. Emporia, Wichita, KS 87219 Fax 316-832-1602	(8)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used: #1: C91868XX (12 gs.; 28" barrel), #2: C87488XX (12 gs.; 28" barrel), #3: C89415XX (12 gs.; 28" barrel). Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performence of the listed sample. Arrold United States Test Laboratory Phone 316-832-1600 reflect the performence of the listed sample. 3448 N. Emporia, Wighita, KS 87219 Fax 316-832-1602			FMADKEMATE		aced hemmer er clif	ior, ethoretes on the r	earment point of the wee	pen.	Poss	
Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results property reflect the performance of the listed sample. Amold United States Test Laboratory Phone 316-832-1600 reflect the performance of the listed sample. 3448 N. Emporia, Wichita, KS 97219 Fax 316-832-1602	Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Sample Description: Internal tocking mechanism consisting of a cylinder lock at trigger guard behind trigger. Arnold United States Test Leboratory Phone 316-832-1600 [3448 N. Emporia, Wighita, KS 67219] Fax 316-832-1600 [3448 N. Emporia, Wighita, KS 67219] Fax 316-832-1600 [3448 N. Emporia, Wighita, KS 67219] Fax [3488 N. Emporia, Wighita, KS 67219]	## 				due to size and her	dness of cylinder mete	rial.			
This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Articld United States Test Laboratory Phone 318-832-1600 and the listed sample. 3448 N. Emporia, Wichita, KS 87219 Fax 316-832-1602	This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Arnold United States Test Leboratory Phone 318-832-1600 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602	,	84	ample Description	on: internal focicin	g mechanism consi:	287488XX (12 ga.; 28" sting of a cylinder lock	barrel), #3: C89415XX (* at trigger guard behind tr	12 ge.; 26" ba igger.	mei).	
			111	his test was pe becification rec	riformed in accu quirements and	ordance with the the results proper	Amold United States To	est Leboratory	Phone	316-832-1600 316-832-1602	
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BARBER - 5.22.06r0009476 Remington Arms Company, Inc. APPENDIX B Research and Development Technical Center M/870 TEST RESULTS - 4 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 10/3/01 Record No: FSD097 Test Date: 10/3/01 Va: Fed Ex Returned Via: UPS Reminaton Customer: Sample Sample Dimensions Body Height: N/A in. Manufacturer: Remington Body Width: N/A in. Internal Lock Type: N/A in. Key Type: Key-Other **Body Depth:** Model: 870 Shackle/Cable Diameter: N/A in. Shackle/Cable Length: N/A in. Serial/Lot: N/A California Title 11, Div. 1, Ch. 12.6 Weight: N/A lbs. Test Spec .: (1) Picking or Manipulating Test ng with use of paper clips (tumbo size), paper clips (#1 size), and small sore keyway for two minutes each. cics shall resist manual meripulation for two minute Sample No. Tool Firearm safety device tested with firearm. jumbo paper clip NA N/A Firearm safety device tested without firearm. #1 paper clip N/A 1.4 mm scrowdnie (2) Forced Removal Inspection scriety device to determine if the Breams eafety device is of select a design that it may not be die the fream through the partial destruction of the fream with opminor Household tools. Sample No. Description/Explanation (Pass/Fail) Firearm safety device does not appear that it may be disabled through the partial destruction of the firespin with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with comment household tools. (3) Tensile Test the device utilizing a pulling action. Apply 225 pounds force slowly along the arms safety device looking components ing or giving support to either the mating locking components of the firearms existly device **Tesulo** Max. Load (lbf.) Test Condition (Pass/Fail) Firearm safety device tested with firearm. Firearm safety device tested without firearm. NA (4) Shock Test ed to test the firearms ealety device and locking mechanism obility to with stand ahock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of co body signs of to impinge and penatrate the looking keyway or combination lock using a de Additionally, using the shock impact fature, drop a 2.2 pound weight from a distance of 39.4 inches + 0.4 inches five times to the top of the frearms safety device body using a chucked ste Results Sample No. **Test Condition** (Pass/Fail) Firearm safety device tested with firearm. blade Firearm safety device tested without firearm. N/A rod Page 1 of 2 Page 20 of 20 October 12, 2001 Marlin R. Jiranek, II CONFIDENTIAL Remington Project: 241315 Research Engineer

Remir	ngton Arms Compan	ny, Inc.		PENDIX B RESULTS - 4 PAGE	Research and De	•	Fechnical Center ntown, Kentucky	
					Record No.: F	3D097		
	This test is designed	I to determine the fire	(5) Shackie arms safety device res	or Cable Cuttir	1,000 pounds force for se	lid metal shac	des or with hand	
	Sample No.	· · · · · · · · · · · · · · · · · · ·	forces of Test Condition	00 pounds force for cab	Mex. Load (ibf.)	Time (s.)	Results	
			nn safety device tes	1			(Pass/Fail)	
	N/A	Firearn	safety device teste	d without firearm.	•	-	N/A	
	This test is designed i	diametr	ebility to withstand a p or drill bit and insert a sc	If tepping screw of size A	e plug from the cylinder. I		with a number 20	
	Sample No.	0007110774	Test Condition		Max, Load (II		Results (Pgss/Fail)	
	N/A		m safety device tes safety device teste		_		N/A) () (0)
	IVA L	radan	salety device teste	a wintout meaning				8
	This test is designed	to test the ability of a		lug Torque Tes keyway, if so equipped,	o willingland torque pressu	es. Insert d'ac	rewdriver with the	<u> </u>
					nd of 89 pounds force that Max. Load (15)	as can be app	ed to the plug.	
	Odarippo NO.	Firea	m safety device tes	ed with firearm.	MADE COMM (ILA	(100.7) 	(Passif #J)	100
	N/A	Fiream	safety device teste	SP 17		100 EUR.	NIA	
		ten p	ing a standard carbon to ounds. The sett shall c	melst of 120 cycles, with	2 teepth per inch will a co to the limit, by hand, nd one 8-inch backward cu		downward force of	
	Sample No.	Y 400 Fires	Test Condition this afety device tes	arf beith fraction	Cycles		(Pass/Fail)	
	1 38	Fiream	n kalety device testa	,600	44		Feil	
		150 a 200 de 150 de	en de la companya de La companya de la companya del companya de la companya del companya de la c	Drop Test				
	Sample No.	SI SI	ctions (C) thru (F)	to not apply to lock-	ох туре белюев.		Results (Pass/Fail)	
		G. 8.			sking mechanism fecin mechanism facing dire		N/A N/A	
	N/A			ndgun, on the grip will	-	ay win.	N/A	
	ê l			suzzie with the barrol			n/a	Í
		(F) Expose		side with the barrel to otherwise on the real	inzontal. Most point of the weap	can .	N/A N/A	
		t cylinder lock on t	rigger guard behind 12 ga., 26" barrel, ;	trigger.				
	Sample Description This test was per	: Internal locking n ormed in accord	echanism consisting		rigger guard (aluminum	i) behind trig	ger.	
}	specification requ reflect the perform			United States Test 3448 N. Emporia,	Laboratory Vichita, K\$ 67219	Phone Fax	31 6-832-16 00 31 6-832-16 02	
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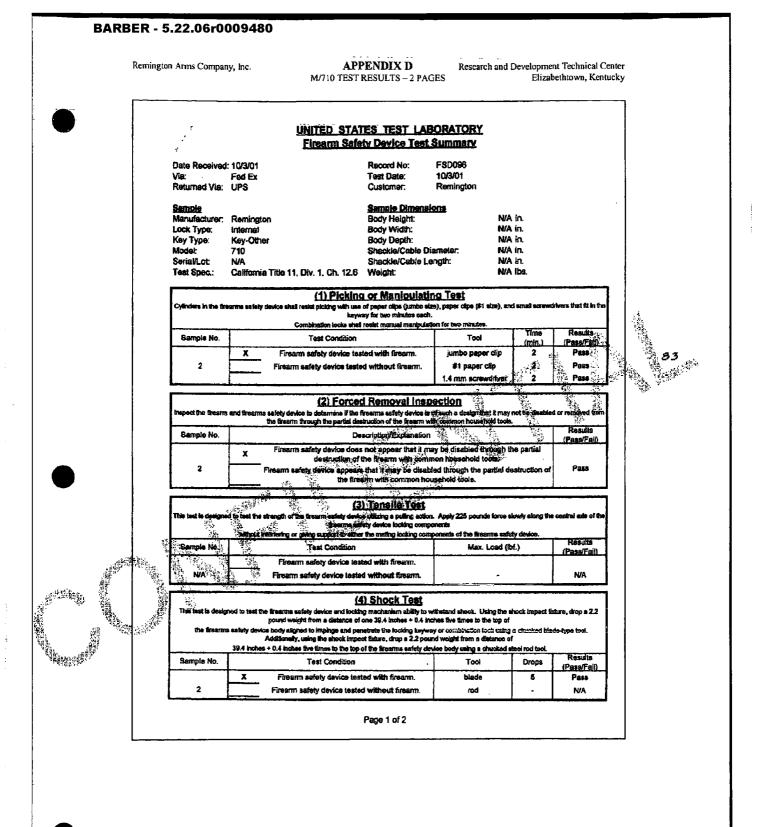
Research Engineer

CONFIDENTIAL

Remington Project: 241315

BARBER - 5.22.06r0009478 APPENDIX C Research and Development Technical Center Remington Arms Company, Inc. M/597 TEST RESULTS - 2 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 9/26/01 Record No: FSD095 Via Test Date: 10/2/01 Returned Vis: UPS Customer: Remington Sample Dimensions Semole Manufacturer: Body Height: N/A in. Remington Lock Type: Internal Body Width: N/A in. Key Type: Body Depth: N/A in. Key-Other Shackle/Cable Diameter: N/A in. Serial/Lot N/A Shackle/Cable Length: N/A in. Test Spec.: California Title 11, Div. 1, Ch. 12.6 Weight: N/A lbs. (1) Picking or Manipulating Test ing with use of paper clips (jumbo size), paper clips (\$1 size), and small so keyway for two minutes each. bination locios shall resist manual manipulation for two minutes Sample No (min.) (Pass/Fail) X Firearm safety device tested with firearm. jumbo paper clip 2 Firearm safety device tested without firearm. #1 paper clip 1.4 mm screwdriv (2) Forced Removal Inspection Ź salety device to determine if the firearms safety device is of such a de the firearm fireugh the partial destruction of the firstim with outlinger pact the Bream and Breams safety device to de Results Description/Explanation Sample No. (Pass/Fail) Firearm select device does not appear that it pay be disabled through the partial destruction of the firearm with common holisehold tools. Firearm safety device appears that it his be disabled through the partial destruction of the firearm with common household tools. (3) Tensile Test rearm eatery device distang a pulling action. Apply 226 pounds force slowly along the central axis of the Repleting safety device looking components ng support to differ the mating looking components of the frearms safety device. de No **Test Condition** Max. Load (lbf.) (Pass/Fail) Firearm safety device tested with firearm. N/A Firearm safety device tested without firearm. N/A (4) Shock Test ne Breams safety device end leuking machanism ability to withstand shock. Using the shock impact thoure, drop a 2.2 pushd weight from a යිවානය හේ ගත 39.4 හානය * 0.4 හානය සිය විපාහ පා පා ජන ජන ජන igned to impinge and penetrate the looking keyway or combination to By, uning the shock impact fature, drop a 2.2 pound weight from a dir 39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked sta Sample No. **Test Condition** Drops (Pass/Eatl) x Firearm safety device tested with firearm. 5 Page Firearm safety device tested without firearm. Page 1 of 2 Page 22 of 22 October 12, 2001 Marlin R. Jiranek, II CONFIDENTIAL Remington Project: 241315 Research Engineer

BARB	BER - 5.22.06r0009479
	Remington Arms Company, Inc. APPENDIX C M/597 TEST RESULTS - 2 PAGES Research and Development Technical Center Elizabethtown, Kentucky
	Record No.: FSD095
	(5) Shackie or Cable Cutting Test
	This test is designed to determine the threatms safety device resistance to cutting forces of 1,000 pounds torce for solid metal chackles or with hand forces of 100 pounds force for retailed. Frequents
	Sample No. Test Condition Max. Leed (bf.) Time (s.) (Pess/Feil) Fireum safety device tested with freezm.
	N/A Fixearm assety device tested without firearm N/A
	(6) Plug Pulling Test This test is designed to fast a cylinder lock's ability to withstend a pulling action to distinge the plug from the cylinder. Drill the keyway with a number 20 diameter drill till and insent a self lapping screw of size AB12 at least 0.75 inches deep. Apply a regulated tension of 225 pounds force axiety between the case and installed screw.
	Sample No. Test Condition Max. Load (lbf.) Results (Pass/Feil)
	X Firearm safety device tested with firearm. 2 Firearm safety device tested without firearm Pass
	(7) Plug Torque Teat This test is designed to test the ability of a theorem eafety device's knywsy, if so equipped, to withstand torque pressures. Insert a screwdriver with the
	largest flat blade (not to exceed 5/6 inch) that will it into the keyway, so that a borque load of 69 pounds force-inches can be applied to the plup. Results Gample No. Test Condition Max. Load (lbs/in.) (Parkit Feil)
	X Firearm safety device tested with firearm.
	3 Firsam safety device tested without fiream. Pass
	(8) Sawing Test The testing agent shall accomplish a test using a standard carbon steel hadraw bigger with 32 toods per first sets a compliant vertical downward force of ten pounds. The test shall consist of 120-cycles, with no time first, by hand, One outling cycle is defined as the combination of one 6-inch forced and one 6-inch backward capturing motion.
	Sample No. Test Condition Cycles (Pase/Fail)
	X Firearm safety device tested with firearm, 3 Firearm defety device tested without firearm, 33 Fell
	Sample No.
	(A) Normal pring position with the barrel horizontal/With the locking mechanism facing directly up. Pass
	(6) Upside down with the barret horizontal/With the locking mechanism facing directly down. Pass (C) If the firearm is a handgun, on the grip with the barret vertical. Pass
enter til state og som til Lings og state og som til	(D) On the muzzle with the barrel vertical.
	(E) On either side with the barrel horizontal. Pass (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon. Pass
	REMARKS/NOTES (8)(7) Test could not be completed due to size and hardness of cylinder material. Firearm Used; Remington, model 597, \$1: 27889XX (22 LR; 20" barrel), \$2: 27948XX (22 LR; 20" barrel), \$3: 27954XX (22 LR; 20" barrel).
	Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger. This test was performed in accordance with the Amold
	specification requirements and the results properly United States Test Laboratory Phone 316-832-1600 reflect the performance of the listed sample. 3448 N. Emporis, Wichita, KS 67219 Fax 318-832-1602
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	Page 27 a627
	Marlin R. Jiranek, II Page 23 of 23 October 12, 2001 Research Engineer CONFIDENTIAL Remington Project: 241315
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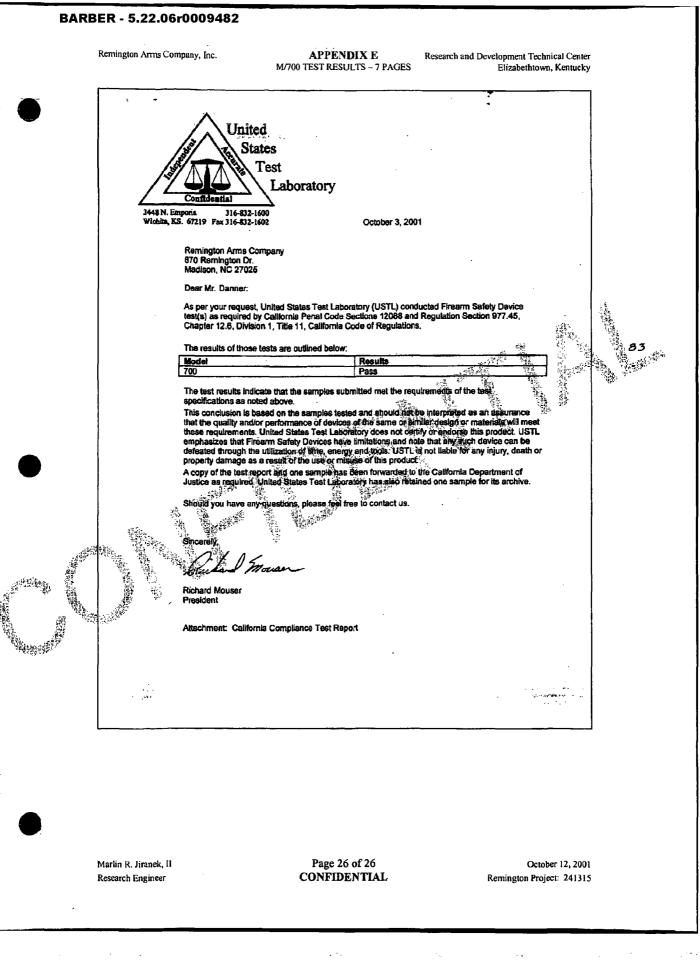


Marlin R. Jiranek, II Research Engineer Page 24 of 24 CONFIDENTIAL

Shackle or Cable Cutting Test	Remingtor	Arms Company	y, Inc. APPENDIX D M/710 TEST RESULTS – 2 PAG			nt Technical Co ethtown, Kent	
(S) Shackle or Cable Cutting Test This test is designed to determibe the firement extrict prices and the country of the possition from the colors. Genetic No. Fresement safety device bested without finearm. N/A G) Plug Pulling Test This treat is designed to test a cylinder looks ability to without a set of toping country of an All 2 is inset 0.15 index 0.25 ind					<u>-</u>		7
(S) Shackle or Cable Cutting Test This test is designed to determibe the firement extrict prices and the country of the possition from the colors. Genetic No. Fresement safety device bested without finearm. N/A G) Plug Pulling Test This treat is designed to test a cylinder looks ability to without a set of toping country of an All 2 is inset 0.15 index 0.25 ind		2					
This test is designed to determibe the Searms attriby device or still pounds force of 100 pounds force for adults. Benniple No. Test Condition Mex. Load ((Pr.)) Time (a) (Pessor Bill) Finance salely device tested with Rearm. N/A Semple No. Test Condition X Finance safety device tested with finance. 4 Finance safety device tested with finance. 4 Finance safety device tested with finance. 4 Finance safety device tested without finance. 4 Finance safety device tested with finance. 7 PLUS TOTUS TOS. Sample No. Test Condition Max. Load ((Pr.)) Finance safety device tested with finance. Finance safety device tested with finance. 7 PLUS TOTUS TOS. Sample No. Test Condition Max. Load ((Pr.)) Finance safety device tested with finance.					SD096		
Remark No. Test Condition Max. Load (Ibi.) Time (a.) (PassAFB)		This test is design	ned to determine the frearms safety device resistance to cutting forces o	rot earnt ebrused 000,1 to	polici metal shaci	idaa or with hand	
Finance safety device tested without finance. N/A Finance safety device tested without finance. N/A Finance safety device tested without finance. This test is designed to test a cylinder locate safety to eliterate pulling states to device the page from the cylender. Drift the kayway with a cumber 20 diseaset of \$15 and have's self staying server of size A512 at least 0.75 house does Apply a regarder leasted or \$25 pounds force adulty between the case and halfald sorve. Sample No. Test Condition X Finance safety device leasted with finance. 4 Finance safety device leasted with finance. Finance safety device leasted with finance. Finance safety device leasted with finance. Test the location access 20 least the 18 in so the largety, to the a target seed of 50 pounds force-shows on the popular to head to least the least of least the safety of a finance safety device feeted with finance. 3 Finance safety device feeted with finance. 3 Finance safety device tested without finance. (3) Saveling Test The testing apent shall accomplish a test using a standard cambon size passible block with 35 finance passible safety and the pounds. The test that device feeted with finance. (3) Saveling Test The testing apent shall accomplish a test using a standard cambon size passible block with 35 finance passible safety and the pounds. The test that consists of 20 cycles, with no titing last, by finally in the passible safety device leasted with finance. Sample No. X Finance safety device tested with finance. (3) Saveling Test Testing safety device tested with finance. (4) Negerial fining position with the barrel horizontal/With the locating mochanism facing directly down. Pass (3) Indicate the coding mochanism facing directly down. Pass (4) Tide of the safety device to the passible block with the barrel vertical. (6) On the maxie with the barrel vertical. (7) Finance safety device the safety fining mochanism facing directly down. Pass (6) Tide of other safety safety fining mochanism facing directly d		Sample No.			Time (s.)		
The treat is designed to test a cylinde lock's shifty to eliterand a pulling ordino to disologe the play from the cylinder. Drill the layway with a number 20 deserted that and have a self targets preserved size AB12 at least 0.75 inches does Apply a regarder locked or 252 pounds from cately between the ones and installed brown. Sample No. Test Condition X Fineam safety device tested with fineam. Fineam safety device tested with fineam. Fineam safety device tested with fineam. Pass (7) Plus Torouse Iss. This treat is designed to test the actity or a fineams earing choick's bayeay; if a explayed, to whentend forces pressure. These is symmetries well-gible larges fit bade (post to exceed 379 inch) that will \$1 trey be beyoney, so that a torque lock of 49 pounds fine-schools and page of the largest fit bade (post to exceed 379 inch) that will \$1 trey be beyoney, so that a torque lock of 49 pounds fine-schools are the pounds of the control of the c			Firearm safety device tested with firearm.				
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demander of bit and lawort a self tapping searor of size ABI2 of least 0.75 inches does. Apply a regular basin of 225 pounds force acidly between the case and helitatide conve. Sample No. Test Condition All Pleasure safety device tested with firearm. Finearm safety device tested with firearm. Pass The test is designed to test the statty of a tinarme safety device tested with firearm. Pass The test is designed to test the statty of a tinarme safety device tested with safety of the test test of the statty of a tinarme safety device tested with safety. Sample No. Test Condition All Load (Brief) X Firearm safety device tested with firearm. 3 Firearm safety device tested with firearm. 3 Firearm safety device tested with firearm. Gist Sawing Test The testing agent shall accomplish a test using a standard cathor stant helitation backs with 22 least in particular variety of the purpose. Cho cuting cycle is defined as the conditions to the beauty of the state of the purpose. Cho cuting cycle is defined as the conditions to the state of the Such prigated and only 3-to become during motion. Sample No. X Firearm safety device tested with firearm. 3 Firearm safety device tested with firearm. 3 Firearm safety device tested with firearm. 3 Firearm safety device tested with the prigated and only 3-to become during motion. Sample No. X Firearm safety device tested with firearm. 1 Firearm safety device tested with the locking mochanism facing directly down. Pass Drop Test Sample No. Sections (C) this firearm in hundred, on the pipe with the barrel vertical. (B) Upsicle down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) If the firearm is hundred, on the rearmost point of the weapon. Pass (C) On the muzzle with the barrel horizontal. (Firearms based harmoner, or striker, otherwise on the rearmost point of the weapon. Pass (C) On the muzzle with the barrel horizontal. (Firearms based. Reminignon, model or a pulp to lock-box type devices. (Firearms based		This test is designed			Drill the keyway	y with a number 20	
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X Presum safety device tested with fineam. Pass		Samala Na			•	Results	
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X Finant safety device tested with finant. Pass		Sample No.	Test Condition	Max. Load (()	э ў п.)		LA 16. Vasi
The testing agent shall accomplish a test using a standard carbon steel fractions believe with 32 feests per just with a constant vertical downward force of ten pounds. The test that consists of 120 cycles, with no tright lamb by fractify. Che catting cycle is defined as the compliquetion of circ 5 with preject and only 5-inch becomes rusting motion. Sample No. X Firsting safety device tested with figurary. 3 Fireagn safety device tested with figurary. 3 Fireagn safety device tested with figurary. 3 Fireagn safety device tested without history. 120 Fail Bample No. Sections (C) thru (F) do not apply to tock-box type devices. (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) Upside down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) On the muscle with the barrel vertical. Pass (E) On either side with the barrel horizontal. (E)			X Firearm safety device tested with firearm.	2 #3.5	Sales	3	
(a) Sawing Test The testing agent enail accomplish a test using a standard carbon steel habitates belief with 32 feeth per liab within constant vertical downward force of the notion pounds. The test that consist of 120 cycles, with no titine limit. by fire (in the limit.) in the limit. by fire (in the limit.) Sample No. I fire condition X Fire agent safety, device tested with fire arm. 3 Fire agent safety, device tested fifthout historic. Sample No. Sections (C) thru (F) do not apply to tock-box type devices. (Pass/Fell) Fell Drop Test Sample No. (A) Namel firing position with the barrel horizontal/With the locking mechanism facing directly up. Pass (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) If the firearm is a hendgun, on the grip with the barrel vertical. (B) Upside down with the barrel tortical. (C) On the muzzde with the barrel vertical. (E) On the muzzde with the barrel horizontal. (F) Exposed harmony or striker, otherwise on the rearmost point of the weapon. Pass (B)(7) Test could not be completed due to size and hardness of cylinder material. Fiverarms Used: Reminigion, model 710, 92. 71029290 (270; 22" barrel), 83. 71029897 (270; 22" barrel), 84. 71029291 (270; 22" barrel), 85. 71029897 (270; 22"		3	Firearm safety device tested without firearm.		2000 2000	Pass	
The testing agent shall accomplish a test using a standard carbon shall facilities blade with 32 feesth per high within constant vertical downward force of the pounds. This test and consist of 120 cycles, with no titing limit. by freely Che cutting cycle is defined as the complication of the 6-both (payard and only 8-both becomes withing motion. Results (Pass/Fell) X Finsam strictly device tested with figurant. 3 Finsagrit safety device tested with figurant. Bample No! Sections (C) thru (F) do not apply to lock-box type devices. (Pass/Fell) (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up. Pass (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) If the firearm is a hendgun, on the grip with the barrel vertical. (E) On the muzdle with the barrel horizontal. (E) On either side with the barrel horizontal. (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon. Pass (B) (7) Test could not be completed due to size and hardness of cylinder material. Firearms Used: Remington, model 710, 82: 71020290 (270; 22" barrel), 84: 71020291 (270; 22" barrel), 84: 71020201 (270; 22" barrel) United States Test Laboratory This feet was performed in accordance with the Arrold United States Test Laboratory 3448 N. Emporia, Wichita, KS 67218 Fax 316-832-1602				William Rich	्र <u>क्</u>	, Ed. 10-	
Sample No. Test Condition X Finant salidity device tested with finant. 3 Finant salidity device tested with finant. Bample Nd. Sections (C) thru (F) do not apply to tock-box type devices. Pass (B) Upside down with the barrel horizontal/With the locking mechanism facing directly up. Pass (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. Pass (C) If the finant is a hendgun, on the grip with the barrel vertical. Pass (C) On the muzzle with the barrel horizontal. Pass (E) On either side with the barrel horizontal. Pass (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. Pass (B)(7) Test could not be completed due to size and hardness of cylinder material. Finants Used: Reminigion, model 710, #2: 71026290 (270; 22" barrel), #3: 71025867 (270; 22" barrel), #4: 71026291 (270; 22" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at bot. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Arrold United States Test Laboratory Phone 316-832-1600 (248 N. Emponis, Wichita, KS 67219 Fax 316-832-1600)		The testing agent sh	atil accomptish a test using a standard carbon steel macidism blade with ten pounds. The test shall consist of 120 cycles, with	no time limit, by fracid		downward force of	
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(B) Upside down with the barrel horizontal/With the locking mechanism facing directly up. (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down. (C) If the firearm is a handgun, on the grip with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (E) On either side with the barrel horizontal. (E) On either side with the barrel horizontal. (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. (B)(7) Test could not be completed due to size and hardness of cylinder material. (B)(7) Test could not be completed due to size and hardness of cylinder material. (B)(7) Test could not be completed due to size and hardness of cylinder material. (B)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder material. (B)(8)(7) Test could not be completed due to size and hardness of cylinder mate	,,	220	100	hov time devices		Results	
(B) Usside down with the barrel horizontal/With the locking mechanism facing directly down. (C) If the firearm is a headgun, on the grip with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be completed due to size and hardness of cylinder material. (B) (7) Test could not be com	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CONTROL TO	7.0				
(C) If the firearm is a heridgun, on the grip with the barrel vertical. (D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (E) On either side with the barrel vertical. (B) On the muzzle with the barrel ve	. 100g S		32:				
(D) On the muzzle with the barrel vertical. (E) On either side with the barrel horizontal. (E) On either side with the barrel horizontal. (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. Pass REMARKS/NOTES (8)(7) Test could not be completed due to size and hardness of cylinder material. Firearms Used: Remington, model 710, #2: 71026290 (270; 22" barrel), #3: 71026887 (270; 22" barrel), #4: 71026291 (270; 22" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at bot. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Arnold United States 1 est Laboratory Phone 316-832-1600 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602			12 9.7		scoj domi.		1
(E) On either side with the barrel horizontal. (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon. REMARKS/NOTES (8)(7) Test could not be completed due to size and hardness of cylinder material. Firearms Used: Remington, model 710, #2: 71026290 (270; 22" barrel), #3: 71026291 (270; 22" barrel), #4: 71026291 (270; 22" barrel). Sample Description: Internat locking mechanism consisting of a cylinder lock at bot. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.	-4 S	1 1					
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(8)(7) Fest could not be completed due to size and hardness of cylinder material. Firearms Used: Remington, model 710, #2: 71026290 (270; 22" barrel), #3: 71026267 (270; 22" barrel), #4: 71026291 (270; 22" berrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at bot. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Arnold United States Leboratory Phone 316-832-1600 (3448 N. Emporria, Wichita, KS 67219 Fax 316-832-1602)					pon,	Pass	
Firearms Used: Remington, model 710, #2: 71026290 (270; 22" barrel), #3: 71026687 (270; 22" barrel), #4: 71026291 (270; 22" barrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at bolt. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.	***						
94: 71026281 (270; 22" berrel). Sample Description: Internal tocking mechanism consisting of a cylinder lock at bolt. This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample. Amold United States 1 est Laboratory Phone 316-832-1600 (3448 N. Emporria, Wichita, KS 67219 Fax 316-832-1602)	lai P	(6)(7) Test could :	not be completed due to size and hardness of cylinder materia	il. 195687 (270) 225 hama			
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reflect the performance of the listed sample. United States Test Laboratory Phone 318-832-1600 168-832-1600		This test was pe	on: Internal tocking mechanism consisting of a cylinder lock at arrowed in accordance with the	bolt.			
	ĺ	specification rec	quirements and the results properly United States Tes	Laboratory			
Page 2 of 2	'	randor and pario		VAICHILLE, NS 6/218	Fax	310-032-1002	·
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Marlin R. Jiranek, II Research Engineer Page 25 of 25 CONFIDENTIAL

Remington Project: 241315



APPENDIX E M/700 TEST RESULTS - 7 PAGES

Research and Development Technical Center Elizabethtown, Kentucky



CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT FD 033 (Rev. 3-01)



The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections 12088 and Regulation Section 977.45. Chapter 12.5, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory	Reference Number/Identifier	FSD093	Date Submitted: 10/3/01
Certified Fir	rearms Safety Device Laborator	ry	United States Test Laboratory
	:		
Address:	3448 N. Emporia		
	Wichita, KS 67219	·	
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(ame(s) and	business affiliations of all pers	ama taho bove	witnessed any part of the testing
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Marlin R. Jiranek, Il Research Engineer

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	Remington Arms Company, Inc.	APPENDIX E M/700 TEST RESULTS – 7 PAGES	Research and Development Technic Etizabethtown, I	
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	COMPLIANCE TEST REL		affiligency of the second of t	•
	FD 033 (Rev. 3-01)		# \$	
	FIR	REARMS SAFETY DEVICE MODEL INFO	RMATION:	
	Firearms Safety Device Type	e (check one): External: Inte	mal: X 1 Integral:	
	Make: Remington			
	Model: 700		· · · · · · · · · · · · · · · · · · ·	
	Construction Material(s) (e.g., steel, alloy, etc.):	· · · · · · · · · · · · · · · · · · ·	. , 4
	Tested on which firearm(s	3)	en e	83
	ł .	ndgun: RevolverPistol		i de la companya de l
	Lo	nggun: Shotgun Rifle		
	C	Other:		25.
	Firearms Make(s) and Mode	(s): Remington Model 700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Berrel Length(s) 26", 22"	7	
)	Caliber(s): 22-250 , 270	/Barrel Length(s) 25 , 22"	<u>्र</u> ्थ इन्द्रे	
				-
	1.75 (A)	PRIMED CASE INFORMATION	•	
ျ င်းမ ှိုင်း - ရွှမ်းမှ	46 600	Manufacturer: N/A		
, 65° , 66° , 67°		Primer: N/A		
v i	X No primed case	e was used. (When firearms safety device	is properly installed, firearm is	
	incapable of accepting ca	rtridges)		
	·			
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	10 de 1	Marine and the second of the s	arrenge with a gr	•
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	Marlin R. Jiranck, II	Page 28 of 28	October	12, 2001
		CONFIDENTIAL		

	Remington Arms Company, Inc.	APPENDIX E R M/700 TEST RESULTS – 7 PAGES	esearch and Development Technical Center Elizabethtown, Kentucky	
	COMPLIANCE TEST REI LABORATORY REFEREI FD 033 (Rev. 3-01)	PORT. NCE NUMBER: FSD093	de 1945 en 1945 en 1960 de 196	
	FIREARMS S	AFETY DEVICE MANUFACTURER OR DEA	LER INFORMATION	
	Firearms Safety Device S	ubmitted by: Remington Arms Company		
	Address: 870 Remington	Dr., Madison, NC 27025		
	Country: USA			
	Contact Person: Dale	<u>Danner</u> Phor	ne Number: 270-769-7628	á .e. s.5
	Chapter 12.6, Division 1, firearms safety device page	cable cutting test test	a check mark, indicate that the	83
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Remington Arms Company, Inc.

APPENDIX E M/700 TEST RESULTS - 7 PAGES

Research and Development Technical Center Elizabethtown, Kentucky

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	COMPLIANCE TEST REPORT	Page 4
	LABORATORY REFERENCE NUMBER: FSD093	
1	FD 033 (Rev. 3-01)	•
	PD 033 (Rev. 3-01)	
	Firearms Safety Device Standards	
	The tested firearms safety device meets the standards in Regulation Se	ection 977.44, Chapter 12.6,
	Division 1, Title 11, California Code of Regulations.	·
	· · · · · · · · · · · · · · · · · · ·	
	(a) The firearms safety device is of a design that will not allow its remove	al or deactivation except by
	utilizing a key, combination, or other unique method as intended by the	manufacturer to allow
	access only authorized users. (Please indicate locking system)	
	(1) If a combination locking system, there are a minimum of 1,00	00 possible combinations
	consisting of a minimum of three numbers, letters, or symbols p	er combination.
		1 186
	X (2) If a key locking system, the key locking system shall be uniq	ue to the manufacturers
	firearms safety device(s)).	
	(3) Other:	- Ja ng Colon State of the Colo
	(b) The firearms safety device renders the firearm inoperable (unable to	Gra) while the firearms
	(b) The firearms safety device renders the firearm inoperable (unable to	title) wille (ne jacolitis 13.
	safety device is properly installed.	
	(c)The firearms safety device functions by at least one of the following method	e (nigase indicate sil annicable
	methods):	CASE CON SO
:	X (1) By blocking travel of the trigger, striker, firing pin, or hammer.	
	(2) By preventing the action or cylinder from closing.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	(3) By preventing the chamber(s) from accepting or holding a car	tridge.
	(4) By preventing access to the firearm.	•
	(d) The firearms safety device is capable of repeated use.	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	X The tested device meets all of the spelve standards.	·
		Link this manufacture
.e4#6######	I declare under penalty of perjury according to the laws of the State in v	mich this report was
# 650 C C C C C C C C C C C C C C C C C C C	executed that all statements made in this report and Attachment A are to	rua and complete.
	Signature:	
		1
	Mamo/Title (Printed): Richard W. Mouser, President	
, A24 , 254	Date: 10-2-01	
ing and the	Date: 10-3-01	
655 ³ 45v.	•	
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Marlin R. Jiranek, II Research Engineer Page 30 of 30 CONFIDENTIAL

BARBER - 5.22.06r0009487 APPENDIX E Remington Arms Company, Inc. Research and Development Technical Center M/700 TEST RESULTS - 7 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summery Date Received: 9/26/01 Record No: F80093 Test Date: 10/2/01 Returned Via: UPS Remington Semple Sample Dimensions Menufecturer: Remington **Body Height** Lock Type: Internal Body Width: N/A in. Body Depth: N/A In. Key Type: Key-Other 700 Shackle/Cable Diameter: Model: N/A in. Serial/Lot: Shackle/Cable Length: NA N/A in. Test Spec.: California Title 11, Div. 1, Ch. 12.6 Weight: N/A lbs. (1) Picking or Manipulating Test at picking with use of paper clips (tumbo size), paper clips (\$1 size), and si itsyway for two minutes each. da shall regist manual manipulatio Sample No. (Pass/Fall) Firearm safety device tested with firearm. × 2 Firearm safety device tested without firearm. #1 paper clip 1.4 mm screwdd Pass (2) Forced Removal Inspection of the Gream and Steams safely device to determine if the Greams eafely device is of each a design that it may not be in the Gream Strough the partiel destruction of the Gream web loggimen househald tools. Description/Explanation Sample No. * (Pass/Fail) Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tooling Firearm safety device appears that it may be assured to firearm with sommon household tools. ers that it may be disabled through the partial destruction o (3) Tensile Test h of the Bream existy device utilizing a pulling action.

Singums existy device looking componing or giving supporting time making looking compo Sample No. **Test Condition** Max. Load (lbf.) Firearm safety device tested with firearm. NA" N/A Firearm safety device lested without firearm. (4) Shock Test nd locking mechanism ability to withstand shock. Using the same of one 39.4 inches + 0.4 inches five time to the top of e body eligned to implage and penetrate the british between or combination look using a chu Additionally, using the eleck impact Robre, drop a 2.2 pound weight from a debance of 39.4 inches \pm 0.4 inches tive times to the top of the firearms safety device body using a chucked sta Sample No. Test Condition Drops (Pass/Fail) X Fireerm safety device tested with freerm blade 5 Firearm safety device tested without firearm. N/A rod Page 1 of 2 Page 31 of 31 October 12, 2001 Marlin R. Jiranek, II CONFIDENTIAL Remington Project: 241315 Research Engineer

BARBER - 5.22.06r0009488 Remington Arms Company, Inc. APPENDIX E Research and Development Technical Center M/700 TEST RESULTS - 7 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 9/26/01 Record No: 10/2/01 UPS Test Date: Returned Via: UPS Remington Customer: Sample Sample Dimensions Manufacturer: Remington N/A In. **Body Height** Lock Type: Body Width: Internal N/A in. Key Type: Body Depth: N/A in. Key-Other N/A in. Model: 700 Shackle/Cable Diameter: Serial/Lot: NA Shackle/Cable Length: N/A in. N/A ibs. Test Spec.: California Title 11, Div. 1, Ch. 12.6 Weight: (1) Picking or Manipulating Test t picking with use of paper clips (tumbo size), paper clips (91 size), and small sore keyway for two minutes each. oles ahall resist manual munipulation for two minute Sample No. **Test Condition** (Pass/Faid) Pass X Firearm safety device tested with firearm. 2 Firearm safety device tested without firearm #1 paper clip Pass (2) Forced Removal Inspection Sample No. (Pass/Fall) Firearm safety device does not appear that it may be disal x fety device appears that it may be disabled through the partial destruction o Pass the firestin with common household tools. (3) Tensile Test of the firearm safety device lifting a pulling action distance safety device looking come or gluing supplied to all for the mailing looking com Reducts Marc Load (lbf.) Test Condition (Pass/Fail) Firearm safety device tested with firearm. AVA sam safety device tested without firearm. (4) Shock Test night from a distance of one 39.4 inches + 0.4 inches the times to the top of abody aligned to impings and panetrate the beeing keyweyer contribution look using a cha Additionally, using the shock impact toture, drop a 2.2 pound weight from a distance of \mathbf{s} + 0.4 inches five times to the top of the frearms safety device body using a chaoted st Ватрів №. Test Condition Drops (Page/Peil) Firearm safety device tested with firearm. blade Firearm safety device tested without firearm rod N/A Page 1 of 2

> Marlin R. Jiranek, II Research Engineer

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APPENDIX E M/700 TEST RESULTS – 7 PAGES

Research and Development Technical Center Elizabethtown, Kentucky

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	(0.0. 11 0.11 0.11		BD093	·	,
This test is deely	(5) Shackle or Cable Cutt and to determine the fiverims safety device resistance to cutting force forces of 100 pounds force for	of 1,000 pounds force for ea	olid metal wheel	ides or with hand	
Bample No.	Test Condition	Max. Load (ibf.)	Time (s.)	Results (Pass/Fail)	
	Firearm safety device tested with firearm.				
NA	Firearm safety device tested without firearm.		-	N/A]
This tout is designe	(6) Plug Pulling To d to test a cylinder lock's ability to withstand a pulling action to debody diameter drill bit and insert a self tapping some of sto deep. Apply a regained tension of 225 pounds force axistly be	the plug from the cylinder, & AB12 at least 0.75 inches		r with a number 29	
Bample No.	Test Condition	Max. Load (II		Results (Pers/Foll)	
	X Firearm safety device tested with firearm.			(Pess/Fell)	
2	Firearm safety device tested without firearm.			Pass	>4
	(7) Plus Torque Te od to test the ability of a finearms safety device's keywey, if so equippes to (not to exceed SR inch) that will fit into the keywey, so that a torque	I, to withstand torque pressur		ed to the plug.	
Sample No.	Test Condition	Max. Load (lbs		Results (Pass/Fell)	
	X Firearm safety device tested with firearm.		, per (12) Vicini Vicini		A SAN AND
3	Firearm safety device tested without firearm.		257	Pass	
	and accomplish a test using a standard cerbon steel teaches base will be pounds. The test shall consist of 120 cycles, will One cutting cycle is defined as the combination of one 6-inch forware	h no time limit, by hand.	ir.	doernward force of Results	
Sample No.	Test Condition	Cycles		(Pass/Fail)	
2	X Firearn safety device tested with firearn. Firearn safety device tested without (there).	120		Pass	
20%	Drop Test				
Sample No.	Sections (C) thit (F) do not apply to loca	-box type devices.		Results (Pass/Pail)	
200 Vin 34 Paraton	(A) Normal firing position with the barrel horizontal/With the	ocking mechanism tecing	directly up.	N/A	
	(B) Upgide down with the barrel horizontal/With the locking	-	tty down.	N /A	
NA 1	(C) If the firearm is a handgun, on the grip w			N/A	
	(D) On the muzzle with the barrel			N/A (·
	(E) On either side with the barrel (P) Current frammer or differ, otherwise on the re		on I	N/A	
Treams Used: R 13: E65881XX (2 lample Descripti This test was po	not be completed due to size and hardness of cylinder mater ternington, model 700, \$1: E66794XX (22-250; 28" barrel), \$5	: E64156XX (270; 22" be t boit.		316-832-1800	

Marlin R. Jiranek, II Research Engineer Page 32 of 32 CONFIDENTIAL

APPENDIX F

Research and Development Technical Center

LETTER FROM TEST LAB TO CA DOJ - 3 PAGES

Elizabethtown, Kentucky



Dale R. Danner Remington Arms Company, Inc. R & D Technical Center 315 W. Ring Road Elizabethtown, KY 42701-9318

October 4, 2001

Dear Mr. Danner:

In accordance with your instructions, United States Test Laboratory, conducted a Firearm Safety Device Test of Remington, Models: 870, 700 EtronX, 750, and 597, which were received on 9/26 and 10/3/01. The results of this test are detailed below.

During the Shock Test of models 700 ErronX and 597 the locking mechanism disengaged after manipulation with a 1/2" screwdriver subsequent to being imparted with 5 drops from a chucked blade-type tool (model 700 EtronX), and chucked steel rod tool (model 597).

During the Plus Torque Test of model 700 ErronX the locking mechanism disengaged while attempting to obtain a torque load of 89 in/lbs.

During the Sawing Test of models 597, 870, and 710 the locking mechanism disengaged after the week housing was removed from the firearm in 33 cycles (model 597-trigger guard), 78 and 41 cycles (model 870-trigger guard) and 120 cycles (model 710-bolt).

This information is provided in addition to the Firearm Safety Device Test Summary in an effort to more thoroughly assist you in understanding the manner in which the Firearm Safety Device performed.

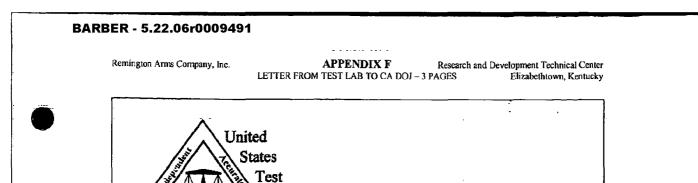
Sincerely,

Branden M. Arnold

Lab Technician

Marlin R. Jiranek, II Research Engineer

Page 33 of 33 CONFIDENTIAL



Enclosed you will find a Firearms Safety Device (Remington Model 700 Rifle) that has successfully completed testing at our laboratory. In the accompanying reporting form provided by your agency you was the test that have been performed by USTL on this particular Firearms Safety Device. If after your inspection you find other test that could or should have been performed, please let us know.

In addition to the rifle enclosed, you will find part of the boil assembly that includes the FSD locking assembly. For information purposes, the enclosed assembly is made of variates steel with a carbon steel lock assembly, where the assembly in the rifle is carbon steel with a carbon steel folk assembly. It is our opinion that the locking assembly is made of the same material (carbon steel) and does not require a separate test since the stainless steel portion of the boil assembly is not an integral portion of the FSD.

Page 34 of 34

CONFIDENTIAL

If after your inspection, yes have any questions of concerns please contact us.

If we can be of any assistance, please let us know.

Richard W. Mouser President

Marlin R. Jiranek, II

Research Engineer

Cc: Remington Arms Co.

Laboratory

3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

> California Dept. of Justice Ms. Less Saville PO Box 160487 Sacramento, CA 95816 October 4, 2001 Dear Ms. Saville,

October 12, 2001

Remington Project: 241315

APPENDIX F

LETTER FROM TEST LAB TO CA DOJ – 3 PAGES EN

Research and Development Technical Center AGES Elizabethtown, Kentucky

September 3, 2001

Attachment "A"

- * The "piug pull" test was attempted, however the keyway slot could not be drilled with a #20 drill bit per the test requirement due to the hardness of the keyway assembly. Therefore a screw could not be inserted to attempt the plug pull portion of the test. We interpret this as a "pass" for this portion of the test. Should you have a different opinion after viewing the FSD, please advise.
- * The "plug torque" test was attempted, however the keyway slot was too narrow to insert a screwdriver that could withstand 89 inch pounds of force. While attempting to deliver the required load, the screwdriver failed before the full load could be applied. We interpret this as a "pass" for this portion of the test. Should you have a different opinion after viewing the FSD, please advise.

Marlin R. Jiranek, II Research Engineer Page 35 of 35 CONFIDENTIAL

Remington Arms Company, Inc.

APPENDIX G FAX FROM CA DOJ – 3 PAGES

Research and Development Technical Center Elizabethtown, Kentucky

18/15/2001 14:11 DEPT OF JUSTICE FIRENRIS DEPT + 82707379576 BILL LOCKTER State of California
DEPARTMENT OF JUSTICE wasy General FAX TRANSMISSION COVER SHEET PORTANT/CONPIDENTIAL: This communication is intended only for the use of the individual or entity to which it is ference. This message contains information from the flatte of Gallonia, Attorney General's Office, which may be visigned, confidentials, and exampt from discissours under applicable late. If the reader of this communication is not the tended recipient, you are hareby notified that any discinnation, discibution, or copying of this communication is which 10/15/01 DATE: 1:65 PM NO. OF PAGES: 3 _ TIME: (INCLUDING COVER SHEET) TO: NAME: Dale Danner OFFICE: Remington Arms Company LOCATION: 270-737-9576 FAX NO: PHONE NO: FROM: NAME: Stoven Toeters OFFICE: Firearma Division LOCATION: P.O. Box 160487, Sacramento, CA 95816-0487 FAX NO: 910-263-0676 PHONE NO: 916-263-0849 MESSAGE/INSTRUCTIONS Dear Mr. Danner: When completing the Department of Justice Firearms Safety Device Listing Request, if you decide to provide a list of firearms that your device can be properly installed and used with, the list must be submitted using a standardized Excel spreadsheet template. The template will be provided to you upon request, and the completed spreadsheet should be returned via small. Please small your request or completed spreadsheets to steven.testers@doj.ca.gov. Thank you! PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER

Marlin R. Jiranek, II Research Engineer

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Remington Arms Company, Inc.

APPENDIX G
FAX FROM CA DOJ ~ 3 PAGES

Research and Development Technical Center Elizabethtown, Kentucky

10/15/2021 14:11

L LOCKYBR raey General DEPT OF JUSTICE FIREARMS DEPT + 82797379576

State of California DEPARTMENT OF JUSTICE

PIREANNE DIVISION
P.O. Bai igner
SACRAMENTO, CA 19816-0487
Pade: (10) 227-3705
Panimin: (910) 228-0676

October 15, 2001

Via Facsimile Transmission (270)737-9576

Delo Danner Remington Arms Company 870 Remington Drive Madison, NC 27025

RE: California Pirearma Safety Device Certification

Dear Mr. Danner.

The Firearms Division has received the Compliance Test Report and firearms safety device for the model indicated on the enclosed Listing Request. Parament to section 977.35, Title 11. Division 1, Chapter 12.6, of the California Code of Regulations, this firearms safety device will be added to the Roster of Approved Pirearms Safety Devices.

There is a certification section at the bottom of each Listing Request. To ensure that the Roster of Certified Firearms Safety Devices contains correct information regarding your firearms safety device, please review the Listing Request, and answer the questions for the model indicated on each certification form. In addition, if the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing, you may provide a listing of those firearms of the dimensions of firearms with characteristics that will allow your degree to perform in a serie and proper manner. For example: you may specify a make and model of firearm; specific or range of calibers; types (plate), myolver, shotgun, rifle, one), or firearms with a trigger guard that is X-inches long and X-inches wide, etc. The information regarding the firearm(s) on which the firearms safety device was tested and the additional firearm(s) for which you certify that the firearms safety device can be properly used will be included on the Roster of Certified Firearms Safety Devices. The certification must be completed by a representative of the company, signed, and returned to the Division.

If you have any questions, please call me at (916) 263-0849

Sincerely.

ganzolen

STEVEN TERTERS, ANALYST Pirearms Information Services Section

For BILL LOCKYER
Antomoy General

Marlin R. Jiranek, II Research Engineer

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October 12, 2001 Remington Project: 241315

Remington Arms Company, Inc.

APPENDIX G
FAX FROM CA DOL - 3 PAGE

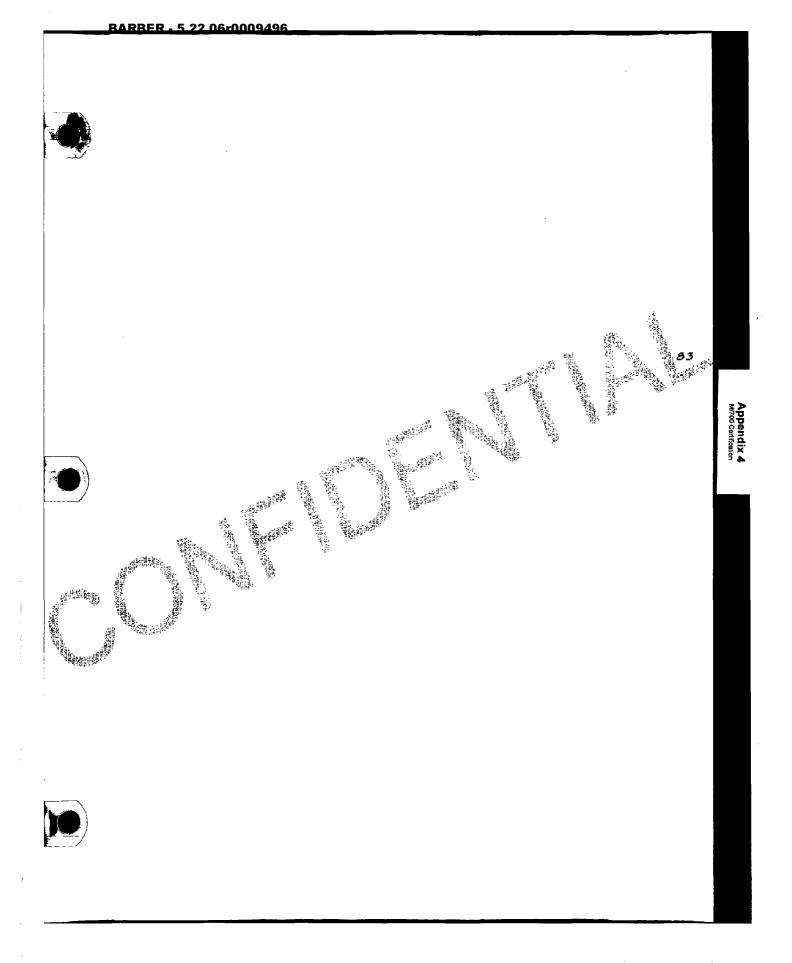
Research and Development Technical Center Elizabethtown, Kentucky

Report ID:	22	F&D Model;	700		1
Lab Raf 6;	F6D093	Lock Type: 1780 Meke:	Remindon	1	
		F&D Type:	Internal	`	
Piretre Mete Celher:	Remington 29-250, 270	Firearm Model:	700 26', 22'		
Campus	ereau, eru	Sarrel Langth: Primer:	25, 22 N/A	İ	1
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		fety Device Manufacti A Designation Certific			
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		the above referenced make the color of the c		Cified from) 7 8
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ireamn(a) the ilmensions of proper manne	was used for teating, firearms with character. For example: you're	properly installed and list you may provide a listing pratics that will allow you list specify a make and it location, this, etc.), or firm	of those firearms o device to perform odel of firearm; spi	irthe in a sale and scific or range	1
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irearm(e) the immensions of calibers, try other long as the firearm on what was test irearm(s) orthogonal mass as cartified for Signed, and reducted that items. This can be secured that items. Items. The cartified for Signed, and reducted that items. Ite	twee used for teeting, fireurms with character. For example: you're need (pistol, revolver, et and X-inches wide; etc. withich the device can be eathich the firearms sate proved for use will be altered to the division in turned to the division. I peneity of perjuny as all statements made he inted):	you may drovide a liading pristics that will allow you hay specify a make and in totion, rith, etc.), or final The division will review the instanced DOJ-certification by device was tested and included on the Roster of must be completed by a realized additional copies. Attach additional copies are true and complete are true and complete are true and complete are true and complete.	of these tireams a device his perform odel of finham; spins with a trigger green installation of the allation method is . The information is the additional firear Preams Safety Eprecentative of the of this sheet if necessaries in which this ta.	in a sale and colling or range saled that is X-s davice and the same as regarding the sim(s) the bavices a company, assary.	
irearm(e) the immensions of calibers, try other long as the firearm on what was test irearm(s) orthogonal mass as cartified for Signed, and reducted that items. This can be secured that items. Items. The cartified for Signed, and reducted that items. Ite	twee used for teeting, fireurms with character. For example: you're need (pistol, revolver, et and X-inches wide; etc. withich the device can be eathich the firearms sate proved for use will be altered to the division in turned to the division. I peneity of perjuny as all statements made he inted):	you may drovide a liading pristics that will allow you may apacity a make and in totique, ritis, etc.), or final The division will review to indialed and if the instanced DOJ-certification by device was tested and included on the Roster onust be completed by a re-Attach additional copies	of these tireams a device his perform odel of finham; spins with a trigger green installation of the allation method is . The information is the additional firear Preams Safety Eprecentative of the of this sheet if necessaries in which this ta.	in a sale and colling or range saled that is X-s davice and the same as regarding the sim(s) the bavices a company, assary.	

Marlin R. Jiranek, II Research Engineer

Page 38 of 38 CONFIDENTIAL

October 12, 2001 Remington Project: 241315



3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

October 3, 2001

Remington Arms Company 870 Remington Dr. Madison, NC 27025

Dear Mr. Danner:

As per your request, United States Test Laboratory (USTL) conducted Firearm Safety Device test(s) as required by California Penal Code Sections 12088 and Regulation Section 977.45 Chapter 12.6, Division 1, Title 11, California Code of Regulations.

The results of those tests are outlined below:

Model	Results	721	153 175	1, 2
700	Pass 🚞			188 Se

The test results indicate that the samples submitted met the requirements of the test specifications as noted above.

This conclusion is based on the samples tested and should not be interpreted as an assurance that the quality and/or performance of devices of the same of similar design or materials will meet these requirements. United States Test Laboratory does not certify or endorse this product. USTL emphasizes that Pirearm Safety Devices have limitations and note that any such device can be defeated through the utilization of time energy and tools. USTL is not liable for any injury, death or property damage as a result of the use or misuse of this product.

A copy of the test report and one sample has been forwarded to the California Department of Justice as required. United States Test Laboratory has also retained one sample for its archive

Should you have any questions, please feel free to contact us.

Sincerely,

Richard Mouser President

Attachment: California Compliance Test Report



CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT



FD 033 (Rev. 3-01)

The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections 12088 and Regulation Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory Information

Laboratory Reference Number/Identifier FSD093 Date Submitted: 10/3/01 Certified Firearms Safety Device Laboratory United States Test Laborator Address: 3448 N. Emporia Wichita, KS 67219 Name and Telephone Number of the DOJ-Certified Laboratory staff person to be contacted regarding this report: Richard W. Mouser, 316-832 Time of Test: 1000-1200 Execution(s) of Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: B. Arnold, D. Newman and R. Mouser Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure: Dale Danner and Marlin Jiranek, II of Remington Arms Company

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FD 033 (Rev. 3-01)

|--|

Page 2

, ,

FIREARMS SAFETY DEVICE MODEL INFORMATION:

	Remingtor	<u> </u>			
Model:	700				
Construc	tion Materia	l(s) (e.g., steel, alloy, e	etc.): <u>Steel</u>		- 3
				· · · · · · · · · · · · · · · · · · ·	
Tested o	n which firea	arm(s)			
	Type:	Handgun: Revolve	er Pistol 🍇		
		Longgun: Shotgur	nRifle X		
		Other:			
irearms f	Make(s) and I	Model(s)∷ Remind	ton Model 700		
	· · ·		37		
aliber(s):	22-2 50 , 2	70 Barrel L	ength(s): 26", 22"	-	
1997 1997 1897 1894					
				-	
		PRIMED	CASE INFORMATION	•	
900 944 944		Manufacturer:	N/A		
rimed C	ase Used:	ivial idiactal ci.			

Country: USA Contact Person: Dale Danner Phone Number: 270-769-7628 TEST RESULTS The four firearms safety devices have passed the test as defined in Regulations Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the		5.22.06r0009500		10
ddress: 870 Remington Dr., Madison, NC 27025 country: USA Contact Person: Dale Danner Phone Number: 270-769-7628 TEST RESULTS the four firearms safety devices have passed the test as defined in Regulations Section 977, 45, thapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with NA. X (1) Picking or manipulation test X (2) Forced removal inspection N/A (3) Tensile test X (4) Shock test 11/A (5) Shackle or cable cutting test X (7) Plug pulling test	ABORATOR	Y REFERENCE NUMBER	R: <u>FSD093</u>	Page 3
ddress: 870 Remington Dr., Madison, NC 27025 country: USA TEST RESULTS he four firearms safety devices have passed the test as defined in Regulations Section 977.45, hapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with N/A. X (1) Picking or manipulation test X (2) Forced removal inspection N/A (3) Tensile test X (4) Shock test M/A (5) Shackle or cable cutting test X (6) Plug pulling test (7) Plug torque test	FII	REARMS SAFETY DEVI	CE MANUFACTURER OR D	EALER INFORMATION
TEST RESULTS The four firearms safety devices have passed the test as defined in Regulations Section 977.45. Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with N/A. X (1) Picking or manipulation test X (2) Forced removal inspection. N/A (3) Tensile test X (4) Shock test N/A (5) Shackle or cable cutting test X (6) Plug pulling test X (7) Plug torque test	irearms Safe	ty Device Submitted by:	Remington Arms Compan	у
TEST RESULTS The four firearms safety devices have passed the test as defined in Regulations Section 977.45. Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with N/A. (1) Picking or manipulation test X (2) Forced removal inspection N/A (3) Tensile test X (4) Shock test N/A (5) Shackle or cable cutting test X (6) Plug pulling test	ddress: 870	Remington Dr., Madison	, NC 27025	
TEST RESULTS The four firearms safety devices have passed the test as defined in Regulations Section 977.45. Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with N/A. X (1) Picking or manipulation test X (2) Forced removal inspection. N/A (3) Tensile test X (4) Shock test N/A (5) Shackle or cable cutting test X (6) Plug pulling test X (7) Plug torque test	ountry: USA	\		
The four firearms safety devices have passed the test as defined in Regulations Section 977 45 Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the rearms safety device passed a specific test. If a test was not applicable, indicate so with N/A. X (1) Picking or manipulation test X (2) Forced removal inspection N/A (3) Tensile test X (4) Shock test N/A (5) Shackle of cable cutting test X (6) Plug pulling test X* (7) Plug torque test	ontact Perso	n: <u>Dale Danner</u>	P	hone Number: 270-769-7628
	hanter 12 6	Division 1 Title 11 Califo	ornia Code of Regulations M	/ith-a check mark, indicate that the
	X (1) I X (2) I N/A (3) X (4) S X (6) I X (8) S	Picking or manipulation to Forced removal inspection Fensile test Shackle of cable cutting the pulling test Plug pulling test	c test. If a test was not applicest	/ith-a check mark, indicate that the

BARBER - 5.22.06r0009501	**
COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD093 FD 033 (Rev. 3-01)	Page 4
Firearms Safety Device Standar The tested firearms safety device meets the standards in Regulati Division 1, Title 11, California Code of Regulations.	
(a) The firearms safety device is of a design that will not allow its rutilizing a key, combination, or other unique method as intended baccess only authorized users. (Please indicate locking system)	
(1) If a combination locking system, there are a minimum of consisting of a minimum of three numbers, letters, or symbols.	
X (2) If a key locking system, the key locking system shall be firearms safety device(s)).	unique to the manufacturers'
(3) Other: (b) The firearms safety device renders the firearm inoperable (una safety device is properly installed.	ible to fire) while the firearms
(c)The firearms safety device functions by at least one of the following methods):	
X (1) By blocking travel of the frigger striker firing pin, or har (2) By preventing the action of cylinder from closing. (3) By preventing the chamber(s) from accepting or holding (4) By preventing access to the firearm.	
(d) The firearms safety device is capable of repeated use.	
X The tested device meets all of the above standards. Leachare under penalty of perjury according to the laws of the State	
Signature:	are true and co m plete.

Name/Title (Printed): Richard W. Mouser, President

Date: 10-3-01

UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received: 9/26/01 UPS

Record No:

FSD093 10/2/01

īa: Returned Via: UPS

Test Date: Customer:

Remington

Sample

Sample Dimensions

Manufacturer: Remington

Body Height:

N/A in.

Lock Type:

Internal

Body Width:

N/A in.

Key Type:

Key-Other

Body Depth:

N/A in.

Model: Serial/Lot: 700 N/A Shackle/Cable Diameter: Shackle/Cable Length:

N/A in. N/A in.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6 Weight:

N/A lbs.

(1) Picking or Manipulating Test

Cylinders in the firearms safety device shall resist picking with use of paper clips (Jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each.

Combination locks shall resist manual manipulation for two minutes

	Committee of the Control of the Cont				
Sample No.	Test Condition	Tool	Time Results (min.) (Pass/Fail) 85		
	X Firearm safety device tested with firearm.	jumbo paper clip	2 Pass		
1	Firearm safety device tested without firearm.	#1 paper clip	2 Pass		
		1.4 mm screwdriver	2 Pass		
		Section 18.05 X 31.	200		

(2) Forced Removal Inspection

Inspect the firearm and firearms safety device to determine if the firearms safety device leaf such a design that it may not be disabled or removed from

Sample No.	le No. Description/Explanation			
1	X Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass		

(3) Tensile Test

designed to lest the strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

without interfering or giving support to either the making locking components of the firearms safety device.

Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
Na: (\$ 100 m) Carlot	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2,2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool.

Sample No.		Test Condition	Tool	Drops	Results (Pass/Fail)
	х	Firearm safety device tested with firearm.	blade	5	Pass
1		Firearm safety device tested without firearm.	rod	-	NA

Page 1 of 2

N/A

Record No.:	

FSD093

N/A

(5) Shackle or Cable Cutting Test					
This test is designed to determine the firearms eafety device resistance to cutting forces of 1,000 pounds force for solid metal shackles or with hand					
forces of 100 pounds force for cables.					
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)	
	Firearm safety device tested with firearm.				

Firearm safety device tested without firearm.

(6) Plug Pulling Test				
This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a regulired tension of 225 pounds force axially between the case and installed screw.				
Sample No. Test Condition Max. Load (lbf.)				
	X Firearm safety device tested with firearm.			
2	Firearm safety device tested without firearm.	-	Pass	

	(7) Plug Torque Tes d to test the ability of a firearms safety device's keyway, if so equipped, e (not to exceed 5/8 inch) that will fit into the keyway, so that a torque ic	to withstand torque pressures. Insert a s	
Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
3	X Firearm safety device tested with firearm.		Pass

The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeeth per inch with a constant vertical downward force of ten periods. The test shall consist of 120 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of one 6-inch backward cutting motion.				
Sample No.	effest Condition	Cycles	Results (Pass/Fail)	
	Fitearm safety device tested with firearm. Fitearm safety device tested without firearm	120	Pass	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1998 VS.			

	Fiteerm safety device tested without firearm	120	Pass
The state of the s			
(*) 	Drop Test		
Sample No:	Sections (C) thru (F) do not apply to lock-box t	lype devices.	Results (Pass/Fail)
	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly		N/A
	(B) Upside down with the barrel horizontal/With the locking med	hanism facing directly down.	N/A
N/A	(C) If the firearm is a handgun, on the grip with the	barrel vertical.	N/A
1	(D) On the muzzle with the barrel vertice	cal.	N/A
	(E) On either side with the barrel horizon	ntal.	N/A
	(F) Exposed hammer or striker, otherwise on the rearmos	t point of the weapon.	N/A

REMARKS/NOTES

(6)(7) Test could not be completed due to size and hardness of cylinder material.

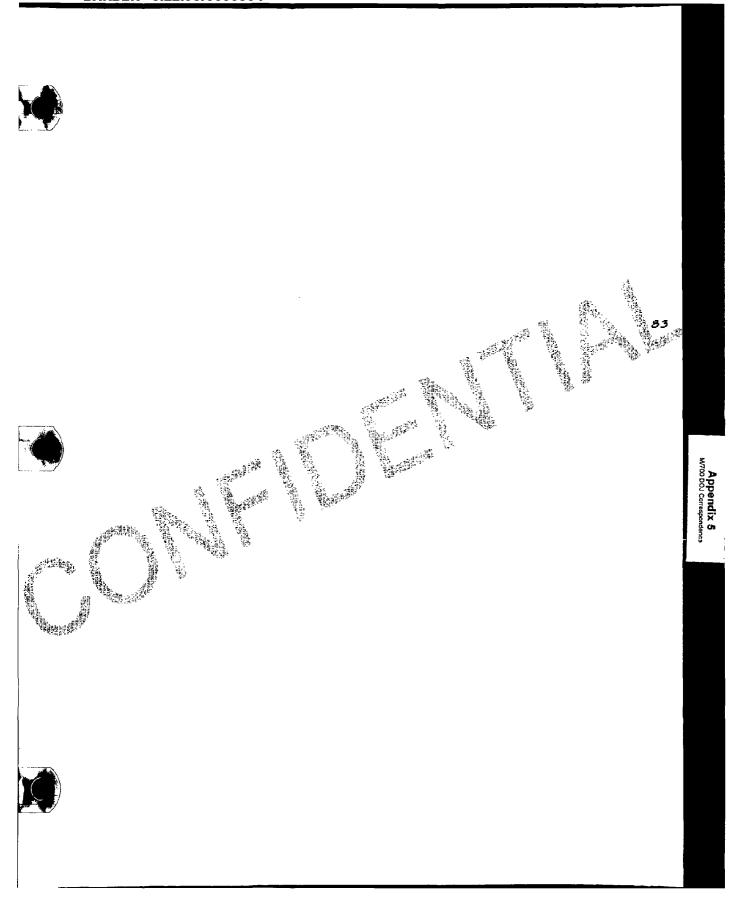
Firearms Used: Remington, model 700, #1: E66794XX (22-250; 26" barrel), #2: E64158XX (270; 22" barrel), #3: E65881XX (270; 22" barrel).

cample Description: Internal locking mechanism consisting of a cylinder lock at bolt.

Is test was performed in accordance with the Specification requirements and the results properly reflect the performance of the listed sample.

Arnold
United States Test Laboratory
Phone 316-832-1600
3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602

Page 2 of 2



BARBER - 5.22.06r0009505

Jiranek, Marlin R.

From:

Jiranek, Marlin R.

Bent:

Wednesday, November 14, 2001 4:31 PM 'steven teeters@doj.ca.gov'

To:

Subject:

Updated Wording for the Firearms Safety Device Website

Steven,

These are the recommended changes to what is currently posted on the DOJ website document. These have been through the proper channels at Remington (Legal/Marketing). Please let me know if you have any problems with the verbiage or other recommendations if this is not satisfactory. Thank you for your time and efforts.

Sincerely,

Marlin R. Jiranek

a) Recommend that the BOLD title changes:

FROM:

Remington

Internal

TO:

Remington

Integrated Security System (ISS)

Internal

b) New paragraph:

Manufacturer states that Remington Model 700 and Model Seven centerfire siles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function properly without an additional firearms safety device. To identify a Remington Model 700 or Model Seven rifle which has an ISS device installed, look for a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt.

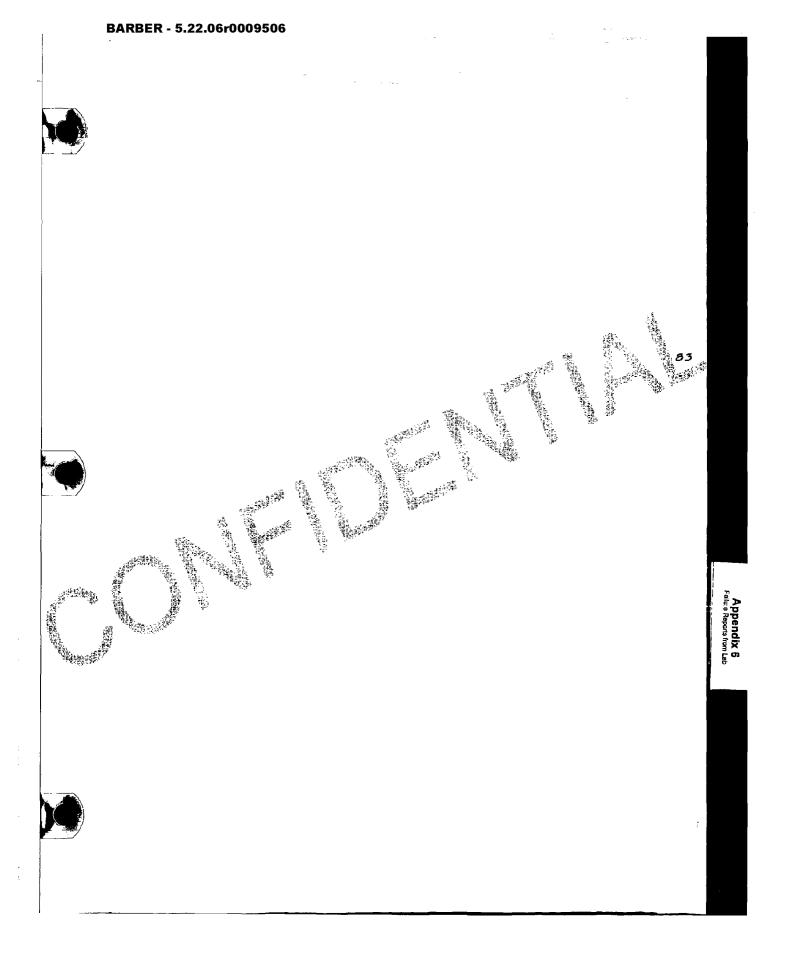
Marlin R. Jiranek, II

Remington Arms Company, Inc. Research & Development Technical Center
315 West Ring Road

Elizabethtown, Kentucky 42701

(270) 769-7645 Phone (270) 737-9576 FAX

Please note my new e-mail address: jiranekmr@remington.com





3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

> Dale R. Danner Remington Arms Company, Inc. R & D Technical Center 315 W. Ring Road Elizabethtown, KY 42701-9318

October 4, 2001

Dear Mr. Danner:

In accordance with your instructions, United States Test Laboratory, conducted a Firearm Safety Device Test of Remington, Models: 870, 700 Etron X, 710, and 597, which were received on 9/26 and 10/3/01. The results of this test are detailed below.

During the Shock Test of models 700 EtronX and 597 the locking mechanism disengaged after manipulation with a 1/4" screwdriver subsequent to being impacted with 5 drops from a chucked blade-type tool (model 700 EtronX) and chucked steel rod tool (model 597).

During the Plug Tompie Test of model 700 EtronX the locking mechanism disengaged while attempting to obtain a torque load of 89 in/lbs.

During the Sawing Test of models 597, 870, and 710 the locking mechanism disengaged after the lock housing was removed from the firearm in 33 cycles (model 597-trigger guard), 78 and 41 cycles (model 870-trigger guard) and 120 cycles (model 710-bolt).

This information is provided in addition to the Firearm Safety Device Test Summary in an effort to more thoroughly assist you in understanding the manner in which the Firearm Safety Device performed.

Sincerely,

Branden M. Arnold

In Ral

Lab Technician

BARBER - 5.22.06r0009508



3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

> California Dept. of Justice Ms. Lesa Saville PO Box 160487 Sacramento, CA 95816

October 4, 2001

Dear Ms. Saville,

Enclosed you will find a Firearms Safety Device (Remington Model 700 Rifle) that has successfully completed testing at our laboratory. In the accompanying reporting form provided by your agency you will see the test that have been performed by USTL on this particular Firearms Safety Device if after your inspection you find other test that could or should have been performed, please let us know.

In addition to the rifle enclosed, you will find part of the bolt assembly that includes the FSD locking assembly. For information purposes, the enclosed assembly is made of stainless steel with a carbon steel lock assembly, where the assembly in the rifle is carbon steel with a carbon steel lock assembly. It is our opinion that the locking assembly is made of the same material (carbon steel) and does not require a separate test since the stainless steel portion of the bolt assembly is not an integral portion of the FSD.

If after your inspection, you have any questions or concerns please contact us.

The make/model tested was:

Remington Model 700 center fire rifle.

If we can be of any assistance, please let us know.

Sincerely,

Richard W. Mouser

President

Cc: Remington Arms Co.

September 3, 2001

Attachment "A"

- * The "plug pull" test was attempted, however the keyway slot could not be drilled with a #20 drill bit per the test requirement due to the hardness of the keyway assembly. Therefore a screw could not be inserted to attempt the plug pull portion of the test. We interpret this as a "pass" for this portion of the test. Should you have a different opinion after viewing the FSD, please advise.
- * The "plug torque" test was attempted, however the keyway slot was too narrow to insert a screwdriver that could withstand 89 inch pounds of force. While attempting to deliver the required load, the screwdriver failed before the full load could be applied. We interpret this as a "pass" for this portion of the test. Should you have a different opinion after viewing the FSD, please advise.

UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Pate Received: 9/26/01 UPS

Record No:

FSD095

Returned Via: UPS

Test Date: Customer:

10/2/01 Remington

Sample

Sample Dimensions

Manufacturer: Remington Lock Type: internal

Body Height: **Body Width:**

N/A in. N/A in.

Key Type:

Key-Other

100 m

100

Body Depth:

N/A in. N/A in.

Model: Senal/Lot:

597 N/A Shackle/Cable Diameter: Shackle/Cable Length:

N/A in.

Test Spec.:

Weight:

N/A lbs.

California Title 11, Div. 1, Ch. 12.6

Pass

1.4 mm screwdriver

(1) Picking or Manipulating Test Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes. Time Results Sample No. **Test Condition** Tool (Pass/Fail)⁵ (min. X Firearm safety device tested with firearm. jumbo paper clip 2 Pass 🔭 Pass 1 Firearm safety device tested without firearm. #1 paper clip

Inspect the firearm	(2) Forced Removal Inspection Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from the firearm through the partial destruction of the firearm with common household tools.				
Sample No.	// Description/Explanation	Results (Pass/Fail)			
1	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass			

700	234 7 6/24 52 637		
100 V	(3) Tensile Test		
Mrs test is designed to	elest the strength of the firearm safety device utilizing a pulling action firearms safety device locking compo	. Apply 225 pounds force slowly along the	e central axis of the
	without interfering or giving support to either the mating locking comp		
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
2 (8 7 7	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

59.4 inches to the unles to the top of the thealths safety device body using a chucked steel rod tool.				
Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
1	X Firearm safety device tested with firearm.	blade	5	Pass
1	Firearm safety device tested without firearm.	rod	5	Fail

Page 1 of 2

Record No.:	F\$D095
-------------	---------

(5) Shackle or Cable Cutting Test							
This test is design	This test is designed to determine the firearms safety device resistance to cutting forces of 1,000 pounds force for solid metal shackles or with hand forces of 100 pounds force for cables.						
Sample No. Test Condition Max. Load (lbf.) Time (s.) Re							
	Firearm safety device tested with firearm.						
N/A	Firearm safety device tested without firearm.	-	-	N/A			

	(6) Plug Pulling Test			
This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a nu diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a required tension of 225 pounds force axially between the case and installed screw.				
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)	
	X Firearm safety device tested with firearm.			
2	Firearm safety device tested without firearm.	-	Pass	

(7) Plug Torque Test This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures insert a screwdives will largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds force-inches carbbe applied to the plus				
Sample No. Test Condition		₩ax. Load (lbs/in.)	Results (Pass/Fail)	
	Firearm safety device tested with firearm			
3	Firearm safety device tested without firearm.		Pass	

(8) Sawing Test The testing agent shall accomplish a test using a standard cattion steel hackeaw blade with 32 teeeth per inch with a constant vertical downward force ten-pounds. The test shall consist of 20 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of the 6-inch forward and one 6-inch backward cutting motion.					
Sample No.	Cycles	Results (Pass/Fail)			
Firearm safety device tested with firearm. 3 Pirearm safety device tested without firearm.	33	Fail			

	S	Pirearm safety device tested with meanin.	33	Fail
		Drop Test		
13.6 8.8 5.6 10.6 10.6 10.6	Sample No.	Sections (C) thru (F) do not apply to lock-box t	ype devices.	Results (Pass/Fail)
*630 j	1.00 mg/m 1.00 mg/m 1.00 mg/m	(A) Normal firing position with the barrel horizontal/With the locking	mechanism facing directly up.	Pass
, and the second		(B) Upside down with the barrel horizontal/With the locking med	hanism facing directly down.	Pass
	2	(C) If the firearm is a handgun, on the grip with the	barrel vertical.	Pass
		(D) On the muzzle with the barrel vertice	cal.	Pass
		(E) On either side with the barrel horizon	ntal.	Pass
		(F) Exposed hammer or striker, otherwise on the rearmos	t point of the weapon.	Pass

REMARKS/NOTES

(6)(7) Test could not be completed due to size and hardness of cylinder material.

Firearm Used: Remington, model 597, #1: 27869XX (22 LR; 20" barrel), #2: 27948XX (22 LR; 20" barrel), #3: 27954XX (22 LR; 20" barrel).

ample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger.

his test was performed in accordance with the Art

specification requirements and the results properly reflect the performance of the listed sample.

Arnold
United States Test Laboratory Photostates Test Laboratory Photostates Test Laboratory Photostates Test Laboratory Photostates Photo

Phone 316-832-1600 Fax 316-832-1602

Page 2 of 2

UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Pate Received: 9/26/01 Via: UPS Returned Via: UPS Record No:

FSD092

Test Date: Customer: 10/2/01 Remington

Sample Dimensions

Sample
Manufacturer: Remington

Remington
Internal/Integrated

Body Height: N/A in.

Lock Type: Key Type:

Key-Other

Body Width: Body Depth: N/A in.

Model:

700 EtronX

Body Depth: Shackle/Cable Diameter: N/A in. N/A in.

Serial/Lot: N/A
Test Spec.: Cali

California Title 11, Div. 1, Ch. 12.6

Shackle/Cable Length: Weight:

N/A in. N/A lbs.

(1) Picking or Manipulating Test

Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each.

Combination locks shall resist manual manipulation for two minutes

Combination locks shall resist manual manipulation for two minutes.				
Sample No.			Time Results (Pass/Fail)	
3	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper slip #1 paper clip 1.4 mm screwdriver	2 Pass 2 Pass 2 Pass	
		95,85°C 22	3500	

(2) Forced Removal Inspection

Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from the firearm through the partial destruction of the firearm with common household tools.

the firearm through the partial destruction of the firearm with common household tools.				
Sample No. Description/Explanation				
3	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass		

(3) Tensile Test

This test is designed to test the strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

without interfering or தக்க்கு support to either the mating locking components of the firearms safety device.

	Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
1		Firearm safety device tested with firearm.		
	N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the tocking keyway or combination lock using a chucked blade-type tool.

Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

20.4 inches 10.4 inches the first to the of the feature of the design to the colored of the design to the

	23,7 IIIG168	· 0.4 menes we the top of the meaning salety det	nce body daing a chacked a	ECF TOU TOOL	
Sample No.		Test Condition	Tool	Drops	Results (Pass/Fail)
	×	Firearm safety device tested with firearm.	blade	5	Feil
3		Firearm safety device tested without firearm.	rod	-	N/A

Page 1 of 2

(5 %) mile (5 %) mile

grande de la compansión de		Record No.:	FSD092	,
	(5) Shackle or Cable Cutting	ng Test	<u> </u>	
This test is design	ned to determine the firearms safety device resistance to cutting forces o forces of 100 pounds force for cabi		r solid metal shack	des or with hand
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	- !	NVA

(6) Plug Pulling Test This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a required tension of 225 pounds force axially between the case and installed screw.					
Sample No.	Results				
	X Firearm safety device tested with firearm.				
1	Firearm safety device tested without firearm.	30.29	Pass		

(7) Plug Torque Test This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures insert a screwdiffer with the largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds force inches can be applied to the plug.				
Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)	
4	Firearm safety device tested with firearm. Firearm safety device tested without frearm.	89	Fail	

		(\$) 15(\$).			
The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeeth per inch with a constant vertical downward force of ten pounds. The test shall consist of #20 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of one control of the combination of one control of the combination of one control one 6-inch backward cutting motion.					
Sample No.	Test Condition	Cycles	Results (Pass/Fail)		
ŊįĀ	Firearm safety device tested with firearm. Pirearm safety device tested without firearm.	-	N/A		

Drop Test				
Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)		
12 (15 pm)	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass		
	(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass		
2	(C) If the firearm is a handgun, on the grip with the barrel vertical.	Pass		
	(D) On the muzzle with the barrel vertical.	Pass		
	(E) On either side with the barrel horizontal.	Pass		
	(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass		

REMARKS/NOTES

Firearms Used: Remington, model 700 EtronX, #1: EG0001XX (22-250; 26" barrel), #2: XC13XX (30-06; 24" barrel), #3: EG0005XX (243; 26" barrel), #4: S62839XX (22-250; 26" barrel).

Sample Description: Internal electronic locking mechanism consisting of a lock cylinder at the base of grip.

his test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.

Arnold United States 3448 N. Emp

United States Test Laboratory Phone 316-832-1600 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1602

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UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received: 10/3/01 Fed Ex /ia:

Record No:

FSD096 10/3/01

Returned Via: UPS

Test Date: Customer:

Remington

Sample

Sample Dimensions

Manufacturer: Remington Internal Lock Type:

Body Height: Body Width:

N/A in. N/A in.

Key Type:

Key-Other

Body Depth:

N/A in. N/A in.

Model: Serial/Lot: 710 N/A

Shackle/Cable Diameter: Shackle/Cable Length:

N/A in.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6

Weight:

N/A lbs.

(1) Picking or Manipulating Test

Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each.

Sample No. Test Condition Tool Time Results (min.) (Rass/Fail) X Firearm safety device tested with firearm. iumbo paper clib* 2 Pass	37		on for two minutes.	Combination locks shall resist manual manipulation	
Firearm safety device tested with firearm jumbo paper chin 2 2	ults /Fail)51	53,177	Tool	Test Condition	Sample No.
2 Firearm safety device tested without firearm. #1 paper clip. 2 Pass	98 🖔 -	2 Pass	jumbo paper clip	Firearm safety device tested with firearm.	2
1.4 mm screwdniver 2 Pass	•	131- 131	1.4 mm screwdriver		

(2) Forced Removal Inspection

Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from

the firearm through the partial destruction of the firearm with common household tools.				
Sample No.	Description/Explanation	Results (Pass/Fail)		
2	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass		

(3) Tensile Test

designed to lest the strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

without interfering or giving support to either the making tocking components of the firearms safety device.

Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
}(\$#X	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool

Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	blade	5	Pass
2	Firearm safety device tested without firearm.	rod	-	N/A

Page 1 of 2

1877 mil

Record	
HACOR	ino:

FSD096

ı	(5) Shackle or Cable Cutting	ng Test		
This test is design	ned to determine the firearms safety device resistance to cutting forces of forces of 100 pounds force for cabi		olid metal shaci	des or with hand
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	- '	N/A

	(6) Plug Pulling Tes	<u>st</u>			
This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches					
	deep. Apply a required tension of 225 pounds force axially bety	veen the case and installed screw.			
Sample No. Test Condition Max. Load (lbf.) Results (Pass/Fa					
	ሄ Firearm safety device tested with firearm.				
4	Firearm safety device tested without firearm.	-	Pass		

	(7) Plug Torque Tes		8.
	ed to test the ability of a firearms safety device's keyway, if so equipped, e (not to exceed 5/8 inch) that will fit into the keyway, so that a torque ic		
Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm		
3	Firearm safety device tested without firearm.		Pass

(8) Sawing Test The testing agent shall accomplish a test using a standard carbon steel hacksaw brade with 32 teeeth per inch with a constant vertical downward force of test provides. The lest shall consist of 120 cycles, with no time limit, by hand. One cutting eyele is defined as the combination of othe 6-inch forward and one 6-inch backward cutting motion.			
Sample No.	Cycles	Results (Pass/Fail)	
Firearth safety device tested with	firearm. 120	Fail	

	Drop Test			
Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)		
(F	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass		
	(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass		
4	(C) If the firearm is a handgun, on the grip with the barrel vertical.	Pass		
	(D) On the muzzle with the barrel vertical.	Pass		
<u>j</u>	(E) On either side with the barrel horizontal.	Pass		
	(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass		

REMARASINOTES			
(6)(7) Test could not be completed due to size and hardne	ss of cylinder material.		
Firearms Used: Remington, model 710, #2: 71026290 (270	0; 22" barrel), #3: 71025667 (270; 22" barrel)),	
#4: 71026291 (270; 22" barrel).			
Sample Description: Internal locking mechanism consisting	g of a cylinder lock at bolt.		
his test was performed in accordance with the]Arnold		
	United States Test Laboratory	Phone	316-832-1600
reflect the performance of the listed sample.	3448 N. Emporia, Wichita, KS 67219	Fax	316-832-1602
#4: 71026291 (270; 22" barrel). Sample Description: Internal locking mechanism consisting his test was performed in accordance with the specification requirements and the results properly	g of a cylinder lock at bolt. Arnold	Phone	316-832-1600 316-832-1602

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UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Pate Received: 9/26/01 FSD094 Record No: **UPS** Test Date: 10/2/01 Returned Via: UPS Customer: Reminaton

Sample

Sample Dimensions Manufacturer: Remington Body Height: N/A in. Lock Type: Internal **Body Width:** N/A in. Key Type: Key-Other Body Depth: N/A in. Model: 870 Shackle/Cable Diameter: N/A in. Serial/Lot: N/A Shackle/Cable Length: N/A in. Test Spec.: California Title 11, Div. 1, Ch. 12.6 Weight: N/A lbs.

(1) Picking or Manipulating Test Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes. Results Time Sample No. **Test Condition** (Pass/Fail)5. (min. X ି ନିଶ୍ରତଃ Firearm safety device tested with firearm. jumbo paper clip: Pass #1 paper clip Firearm safety device tested without firearm. 1.4 mm screwdriver Pass

(2) Forced Removal Inspection Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from the firearm through the partial destruction of the firearm with common household tools. Results Sample No Description/Explanation (Pass/Fall) Fireams affety device does not appear that it may be disabled through the partial X destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of 1 Pass the firearm with common household tools.

(3) Tensile Test designed to be strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components without interfering or giving support to either the mating locking components of the firearms safety device. Results Sample No. **Test Condition** Max. Load (lbf.) (Pass/Fail) Firearm safety device tested with firearm. N/A Firearm safety device tested without firearm. N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fodure, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool.

Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	blade	5	Pass
1	Firearm safety device tested without firearm.	rod	5	Pass

Page 1 of 2

6		Record No.: FS	SD094	
	(5) Shackle or Cable Cutti	ng Test		
This test is design	ned to determine the firearms safety device resistance to cutting forces of top pounds force for cab		lid metal shack	des or with hand
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	-	N/A

	(6) Plug Pulling Tes	t	
This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a required tension of 225 pounds force axially between the case and installed screw.			
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.		
2	Firearm safety device tested without firearm.		Pass

	(7) Plug Torque Tes	t est	\$ 5
	ed to test the ability of a firearms safety device's keyway, if so equipped,		
largest flat blad	e (not to exceed 5/8 inch) that will fit into the keyway, so that a torque to	ad of 89 pounds force inches can be appl	
Sample No.	Test Condition	Max. Load (bs/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.		Nº -
1	Firearm safety device tested without firearm.		Pass
	04 99 0s (2) .26 9 0		

(8) Sawing Test The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 feeeth per inch with a constant vertical downward force of ten pounds. The test shall consist of 120 cycles with no time limit, by hand. One cutting cycle is defined as the combination of one sinch forward and one 6-inch backward cutting motion. Results Test Condition Sample No. Cycles (Pass/Fail) X 78 Firearm safety device tested with firearm. Fail 31 Fail Fiream salety device tested without fiream.

<u> </u>		Drop Test	
Sam	ple No	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)
i One and the second of the se	Š.	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass
,		(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass
ſ	2	(C) If the firearm is a handgun, on the grip with the barrel vertical.	Pass
1		(D) On the muzzle with the barrel vertical.	Pass
ı		(E) On either side with the barrel horizontal.	Pass
]		(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass

REMARKS/NOTES

(6)(7) Test could not be completed due to size and hardness of cylinder material.

Firearm Used: #1: C91866XX (12 ga.; 28" barrel), #2: C87486XX (12 ga.; 28" barrel), #3: C89415XX (12 ga.; 26" barrel).

Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard behind trigger.

his test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.

Arnold United States Test Laboratory 3448 N. Emporia, Wichita, KS 67219

Phone 316 Fax 316

316-832-1600 316-832-1602

Page 2 of 2

UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received: 10/3/01

Record No:

FSD097

Via: Returned Via: UPS

Fed Ex

Test Date: Customer:

10/3/01 Remington

Sample

Sample Dimensions

Manufacturer:

Remington

Body Height:

N/A in.

Lock Type:

Internal Key-Other Body Width: **Body Depth:** N/A in. N/A in.

Key Type: Model:

870

Shackle/Cable Diameter:

N/A in.

Serial/Lot:

N/A

Shackle/Cable Length:

N/A in.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6

Weight:

N/A lbs.

(1) Picking or Manipulating Test

Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each.

	Combination locks shall resist manual manipulation for two minutes.			
Sample No.	Test Condition	Tool	Time 🥞 🖔	Results (Pass/Fail)5.3
	Firearm safety device tested with firearm.	jumbo paper clip		N/A
N/A	Firearm safety device tested without firearm.	#1 paper clip 1.4 mm screwdriver	-	N/A N/A
		732×. 1965 1435	200	أحبب بيديد

(2) Forced Removal Inspection

Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from

L	the firearm through the partial destruction of the firearm with common household tools.				
Sample No.	lo. Description/Explanation				
N/A	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	N/A			

(3) Tensile Test

designed to dest the strength of the firearm safety device utilizing a pulling action Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

6.5 TO THE PARTY OF THE PARTY O	section interioral or good support to enter the matrix locarity cond	renemb of the meanits salety device.	
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
}:5 5 7	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device hody using a chucked steel rod tool

Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	Firearm safety device tested with firearm.	blade		
N/A	Firearm safety device tested without firearm.	rod	-	N/A

Page 1 of 2

1870 mile 1880 mile

N/A

		Record No.:	FSD097	
	(5) Shackle or Cable Cutt	ing Test		
This test is designed to	tetermine the firearms safety device resistance to cutting forces forces of 100 pounds force for ca		solid metal shack	des or with hand
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			7

Firearm safety device tested without firearm.

	(6) Plug Pulling Tes	t		
This test is designe	d to test a cylinder lock's ability to withstand a pulling action to dislodge t diameter drill bit and insert a self tapping screw of size A deep, Apply a required tension of 225 pounds force axially betw	AB12 at least 0.75 inches	y with a number 20	
Sample No. Test Condition Max. Load (lbf.)				
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	N/A	

	(7) Plug Torque Tés ed to test the ability of a firearms safety device's keyway, if so equipped, e (not to exceed 5/8 inch) that will fit into the keyway, so that a torque los	to withstand torque pressures. Insert a sc	ි වී වි rewardiver with the
Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
	Firearm safety device tested with firearm		
N/A	Firearm safety device tested without lirearm.		N/A

The testing agent s	(8) Sawing Test hall accomplish a test using sistended carbon steel hadreaw blade with ten pounds. The test shall consist of 120 cycles with	32 teeeth per inch with a constant ve no time limit, by hand.	
Sample No.	One cutting cycle is defined as the combination of citie 6-inch forward a	nd one 6-inch backward cutting moti	on. Results (Pass/Fail)
	Firearm safety device tested with firearm. Presum safety device tested without firearm.	4.6	Fell

123	Drop Test	
Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	N/A
	(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	N/A
N/A	(C) If the firearm is a handgun, on the grip with the barrel vertical.	N/A
	(D) On the muzzle with the barrel vertical.	N/A
	(E) On either side with the barrel horizontal.	N/A
	(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	N/A

REMARKS/NOTES

(8) Sample tested at cylinder lock on trigger guard behind trigger.

Firearm Used: Remington, model 870, 12 ga., 26" barrel, S/N 091868XX.

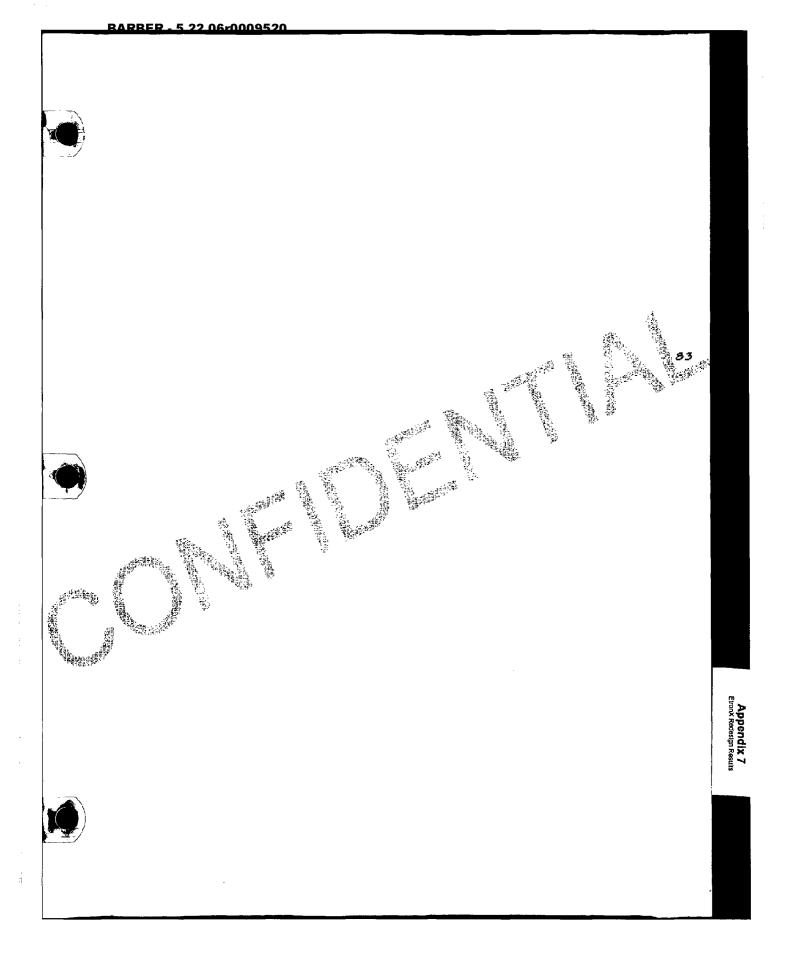
Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard (aluminum) behind trigger.

his test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.

Amold United States Test Laboratory Phor 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1600 316-832-1602 Phone

Page 2 of 2

N/A



BARBER - 5.22.06r0009521

Remington Arms Company, Inc.

CONFIDENTIAL

Research and Development Technical Center Elizabethtown, Kentucky

February 5, 2002

To: Dale Danner From: Marlin Jiranek

RE: CA DOJ Plug Pulling Test Results - New EtronX Keyswitch

BACKGROUND

An alternative safety key-switch was identified for potential use in the M/700 EtronX rifle. The alternative key-switch is manufactured using stamped metal construction rather than the polymer construction of the currently utilized key-switch. This alternative key-switch was tested per the State of California Department of Justice (CA DOJ) Firearms Safety Device standards in all aspects which the current key-switch model failed the testing procedure.

Three tests were conducted on the alternative key-switch including the Plug Pulling Test, the Shock Test, and the Plug Torque Test. The Plug Torque Test and the Plug Pulling Test were done exactly to the CA DOJ specifications while the Shock Test used a slightly modified procedure, as Remington does not have an impact fixture per the standard.

CONCLUSION

The alternative safety key-switch failed the Plug Pulling Test and most likely will fail the Shock Test per the CA DOI testing procedures. An improvement over the old design is that the key-switch did pass the Plug Torque Test.

The key-switch FAILED the Plug Pailing Test by the lock cylinder being removed under the specified 225 pounds-force, thus exposing two metal contacts in the bottom of the lock that could be electrically connected using a standard '4" flathead screwdriver.

The key-switch would most likely fail the Shock Test using the CA DOJ testing procedure. The CA DOJ specified procedure was modified for this test, using a 0.150" flathead screwdriver blade (rather than a ¼") and striking from about 1.5 feet with a 2.3 pound mass (rather than striking from 1 meter with a 2.2 pound mass). The screwdriver was driven into the lock cylinder and was then able to be rotated to the "ON" position, thus defeating the key-switch.

The key-switch did PASS the <u>Plug Torque Test</u>. At a torque level less than the maximum allowable torque, the lock cylinder appeared to turn in the lock body to the "ON" position. However, the screwdriver bit actually destroyed the top of the plastic locking cylinder and did not disengage the lock. This passed the test, as the lock could not be defeated in this manner.

Marlin R. Jiranek, II Research Engineer Page 1 of 2

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PROCEDURE / RESULTS

Plug Pulling Test

The adopted CA DOJ Firearms Safety Device standards for the Plug Pulling Test are stated as follows:

Plug pulling test (utilize a new firearms safety device)(does not apply if test cannot be performed on the device). This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 (0.161 inch, .41 centimeter) diameter drill bit and insert a self tapping screw of size AB12 at least 19 millimeters (.75 inches) deep. Apply a required tension of 1,000 newtons (225 pounds force) axially between the case and the installed screw. Failure occurs if the firearms safety device can be opened by manipulation with an 8 to 10-inch (20.3 to 25.4cm) long screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway at the conclusion of the test. Failure also occurs if the firearms safety device is disabled.

Per this specification, two samples of the alternative key-switch were tested. Each of the locks was drilled using a No. 20 drill bit and then a self tapping size AB12 screw was inserted into each lock ¾" deep. The plug was then removed using the instron Tensile. Testing machine to obtain a plug removal force profile. Figure 1 presents a graph of the force required to remove the locking cylinders from each of the two sample locks.

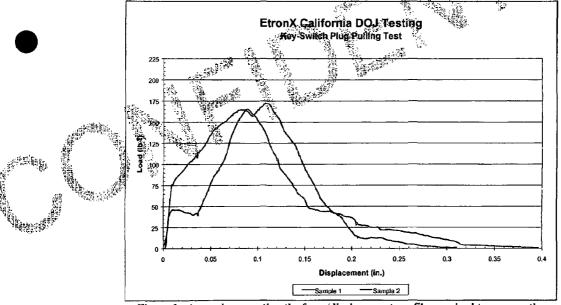


Figure 1. A graph presenting the force/displacement profile required to remove the locking cylinder from each of the two key-switch samples. The CA DOJ maximum force requirement is 225 pounds-force, which corresponds to the top of the y-axis.

The maximum load required to remove the lock cylinders from the test samples 1 and 2 was 172 lb-f and 165 lb-f respectively. The maximum allowable force per the CA DOJ specification is 225 lb-f. Once the plug was removed from the lock body two electrical

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contacts were exposed at the bottom of the lock body that could easily be connected using a standard ¼" flathead screwdriver. Figure 2 presents an image of the electrical contacts at the bottom of the lock body that were exposed after the cylinder was removed from the lock.

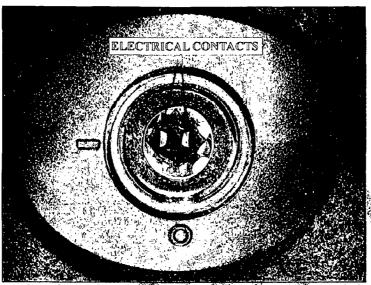


Figure 2. An image of the electrical contacts plainly visible after removal of the locking cylinder from the key-switch lock body.

Shock Test

The adopted CA DOX Firearms Safety Device standards for the Shock Test are stated as follows:

Shocktest does not apply if test cannot be performed on the device). This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop cone-kilogram (2.2 pound) weight from a distance of one meter \pm one centimeter (39.4 inches \pm 0.4 inches) five times to the top of the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool (chucked blade-type tool should be crafted from the shank of a screwdriver with a ¼ to 5/8-inch (.63 to 1.6 centimeter) flathead end). Additionally, using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter (39.4 inches), five times to the top of the firearms safety device body using a chucked steel rod tool. Failure occurs if the firearms safety device is disabled by the shock test. Failure also occurs if the following the shock test, subsequent manipulation with a 8 to 10-inch (20.3025.4 cm) long screwdriver with a ¼ to 5/8-inch (.63 to 1.6 centimeter) flathead end allows the tester to discharge a primed case.

As Remington does not have a shock impact fixture per the CA DOJ specification, a simple laboratory set-up was utilized to make a determination of the likelihood that the alternative key-switch may pass this testing procedure. For the laboratory test, a 0.150" width flathead screwdriver was placed in the keyway as a 2.3 pound mass was dropped onto the back of the screwdriver five time from a height of roughly 1.5 feet (18-20 inches). After the impacts were completed, the screwdriver could be turned and the lock

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cylinder rotated into the "ON" position. If the test were run per the CA DOJ procedure, it would most likely end with the same result. Figure 3 presents an image of the key-switch with the screwdriver impacted into the lock keyway. Next to the key-switch is an identical screwdriver to show the depth of penetration of the screwdriver into the lock cylinder.



Figure 3. An image of the new key-switch with a screwdriver impacted into the keyway. This screwdriver could be turned to activate the key switch after the five impacts were completed.

Plug Torque Test

The adopted CA DOJ Firearms Safety Device standards for the Plug Torque Test are stated as follows:

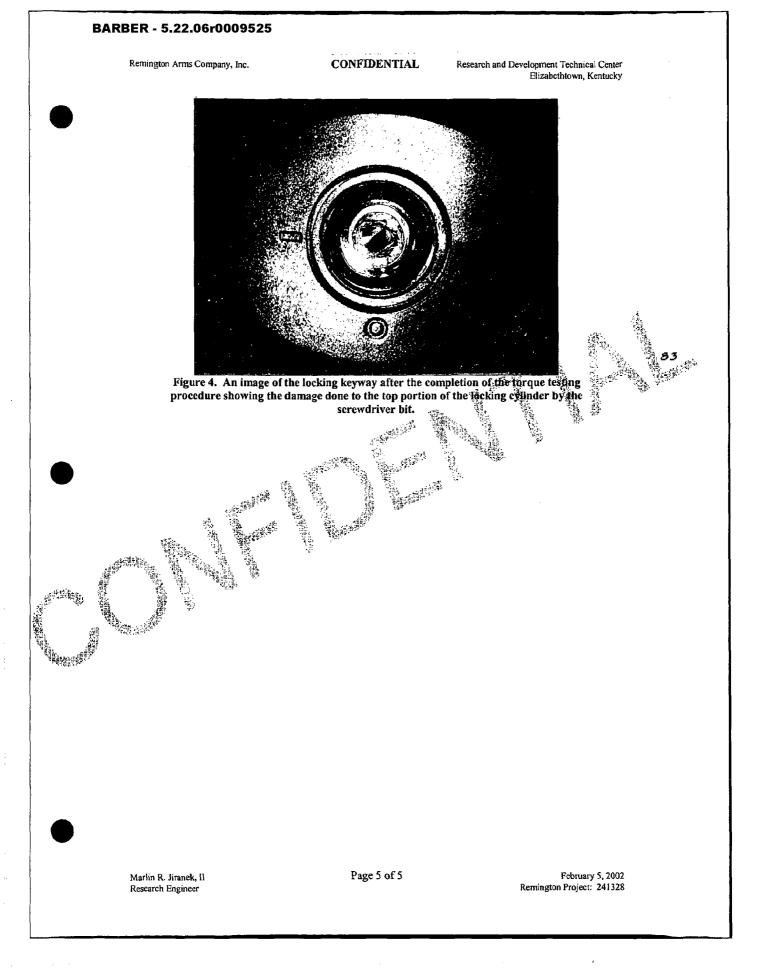
Plug torque test (utilized new firearms safety device) (does not apply if test cannot be performed on the device). This test is destroid to test the ability of a firearms safety device's keyway, if so equipped, to withstand for one pressures. Install the firearms safety device in a rigid fixture such as a vise to support it firmly but not respect free potation of the plug in the cylinder. Insert a screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway, so that a torque load of ten Newway meters (89 pounds force-inches) can be applied to the plug. Failure occurs if the firearms safety device is disabled.

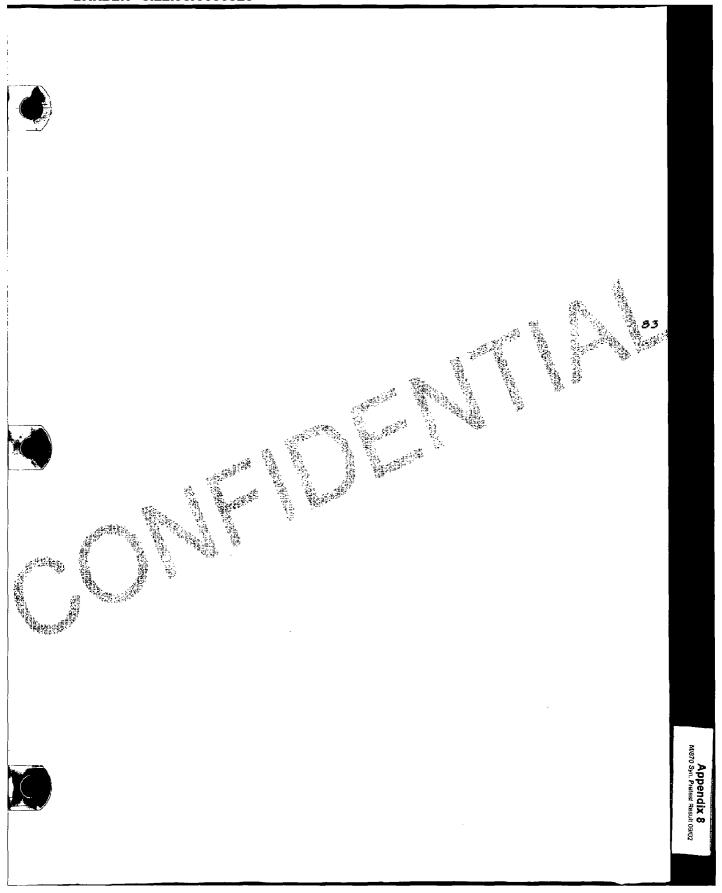
This test was conducted per the CA DOJ specifications. During the test, the screwdriver bit was inserted into the cylinder keyway and successfully turned using less than the maximum 89 inch-pounds. This action did not disengage the locking mechanism, however, the screwdriver bit destroyed the upper portion of the cylinder plug of the lock.

The locking cylinder is primarily composed of polymer material with small metal "pins" in the keyway. During the plug torque testing, the locking cylinder construction allowed for the top of the cylinder plug to be destroyed by the rotation of the screwdriver bit in the top of the keyway as the remaining "pins" held the locking cylinder in place. In this manner, the locking mechanism was not compromised during this test. Figure 4 presents an image of locking keyway after completion of the testing procedure.

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PRELIMINARY Remington® Common F/C ISS Testing

(Integrated Security System)

Per

California D.O.J. Lock Regulations

Proposed addition of Chapter 12.6, §977.10 - §977.90 of Title 11 of the California Code of Regulations, pursuant to §12087.0 -- §12088.9 of the Penal Code.

TEST REPORT

written by:

Marlin R. Jiranek, II

Marlin R. Jiranek, Il Senior Research Engineer Page 1 of 6

September 18, 2002 Remington Project: 241328

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HISTORY

Pursuant to the Aroner-Scott-Hayden Firearms Safety Act of 1999, which added to the California Penal Code section 12087 et. Seq., the California Department of Justice (CA DOJ) was missioned with creating a list of standards and certifying independent test laboratories to test firearms safety devices to this list of standards, which then could become eligible for approval as a CA DOJ certified firearms safety device.

Remington Arms company had tested all of the ISS equipped fire-controls in October 2001, pursuant to this CA DOJ requirement. The results from this previous testing certified the M/700 and M/Seven ISS systems as CA DOJ approved firearms safety devices. In an effort to achieve CA DOJ approval for the other ISS equipped firearms in the Remington product line, Remington has made design changes to the ISS systems that address the shortcomings of the ISS as it applies to the CA DOJ testing requirements. These re-designed systems will be re-tested to gain certification by the CA DOJ as approved firearms safety device.

A sample of the common fire control was tested at a certified testing faboratory, pursuant to the CA DOJ specifications. The fire controls were not cosmetically correct and therefore could not be submitted as the actual CA DOJ device, however, all of the design specifics of the fire controls are as they will be in production.

SUMMARY

The samples that were tested passed the CA DOI testing requirements for certification as a CA DOI approved firearms safety device. In addition to the standard tests required for certification, the fire controls also passed an "extended" version of the shock test and the sawing test procedures. Table 1 presents a table of results of the testing. The actual results are included in Appendix 1 at the end of this report.

	ton ISS Testing per the Califo		Results
Test No.	Test Description	DOJ Regulation	870 Synthetic Housing
1	Picking / Manipulation Test	977.45 subsection c.1	Pass
2	Forced Removal Inspection	977.45 subsection c.2	Pass
3	Tensile Test	977.45 subsection c.3	N/A
4	Shock Test	977.45 subsection c.4	Pass
5	Shackle/Cable_Cutting Test	977.45 subsection c.5	N/A
6	Plug Pulling Test	977.45 subsection c.6	Pass
7	Plug Torque Test	977.45 subsection c.7	Pass
8	Sawing Test	977.45 subsection c.8	Pass
9	Drop Testing (Firearms)	977.45 subsection d	Pass
10	Drop Testing (Enclosures)	977.45 subsection e	N/A
11	Extended Shock Test		Pass
12	Extended Saw Test		Pass

Table 1. Testing results from the certified testing laboratory.

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PROCEDURE & RESULTS

The fire controls were subjected to the entire gamut of testing as required by the CA DOJ regulations. This included a total of seven tests that could be applied to the ISS device. In addition to the standard tests, two additional "extended" tests were performed to determine whether the current product is near the design limit when tested to the required regulations.

The "extended" tests included a more severe shock test and a more severe saw test. The standard shock test procedure is as follows:

§977.45, subsection c.4: "Shock test (does not apply if test cannot be performed on the device). This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter ± one centimeter (39.4 inches) five times to the top of the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool (chucked blade-type tool should be crafted from the shank of a screwdriver with a ¼ to 5/8-inch (.63-to 1.6 centimeter) flathead end). Additionally, using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter (39.4 inches), five times to the top of the fixearms safety device is disabled by the shock test. Failure also occurs if following the shock test, subsequent manipulation with an 8 to 1-inch (20.3-25.4 cm) long screwdriver with a ¼ to 5/8-inch (.63 to 1.6 centimeter) flathead end allows the tester to discharge a primed case".

After the standard shock test was completed. The same test was conducted on a new fire control using a drop height of 1.45 meters rather than one meter. The blade tool was impacted into the key-way side of the ISS five times in successions followed by the steel rod tool being impacted onto the opposite side of the safety button a ten times in succession. The results were that the safety button was pushed to a point at which the ISS detent became wadged between the plastic housing and the dimple in the safety button. This test did not result in failure of the ISS, rather, the test resulted in an operational ISS that could not be fired after the impacts.

The additional height resulted in an increase of the impact velocity of the weight by 20%, from 4.42 m/s (14.5 ft/s) using the standard procedure to 5.33 m/s (17.5 ft/s) using the "extended" procedure. This impact velocity increase resulted in an impact energy increase of 45%, from 9.8 Joules (7.2 ft-lb) using the standard procedure to 14.2 Joules (10.5 ft-lb) using the "extended" procedure.

The saw test procedure is as follows:

§977.45, subsection c.8: "Sawing test (does not apply if test cannot be performed on the device). Sawing tests shall be performed using a sawing machine or hand held saw and appropriate fixtures, to fold the device steady while sawing. To determine the firearms safety device resistance to sawing of exposed components, including cables, that would result in removal of the firearms safety device or render it disabled. The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch (2.54 centimeters) with a constant vertical downward force of ten pounds (44.5 newtons). The test shall consist of 60 cutting cycles per minute for two minutes by sawing machine or 120 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of one 6-inch forward and one 6-inch backward cutting motion. Failure occurs if the firearms safety device is disabled".

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After the standard sawing test was completed, the design changes were shared with the testing personnel and a second fire control was tested. During the second test, the entire blade of the saw was used (10-inch blade strokes rather than 6 inch blade strokes) and the down-force was substantially increased. The increase in down-force was achieved by using the standard 10-pound hacksaw and allowing the tester to apply as much additional pressure as he could. A total of 120 strokes was utilized and the tester gave up when he was satisfied that there was no method that he could determine that would result in removal of the ISS safety button or the ISS becoming disabled.



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APPENDIX 1 - LABORATORY TEST REPORT

UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received: 9/16/02

Via: Fed Ex Returned Via: Fed Ex

Test Date: Customer: 9/17/02 Reminator

Sample Dimensions

Sample Manufacturer:

Reminator Integral

Body Height: Body Width:

N/A In. N/A in. N/A In.

Lock Type: Key Type: Model: Serial/Lat

Key-Other 870 Express Magnum Body Depth: Shackle/Cable Dis.: Shackle/Cable Length:

N/A in.

Test Spac.:

California Title 11, Div. 1, Ch. 12.6 Weight:

N/A lbs

(1) Picking or Manipulating Test

Firearm safety device tested without firearm

os shall resist picking with use of paper citos (jumbo stzo), paper citos (#1 stzo), and small in the keyway for two minutes sech.

Combination locks shall resist manual manipulation for two minutes. Sample No. Tool (min.) (Pass/Fall) Firearm safety device tested with firearm jumbo paper ckp

(2) Forced Removal inspection

#1 paper clip

Sample No. 28 (Pass/Fail) ly device does not appear that it may be disabled th destruction of the litearm with common household tools on safety device speears that it may be also bed through the parti-of the litearm with common household tools.

[3] Tensife Test

weight of the freams safety dryice utilizing building action. Apply 225 pounds force slowly along the central

of the freams safety device change components

infigure giving support to either the making locking components of the fireams safety device.

Results

Test Condition Max. Load (lbf.) (Pass/Feil)

Firearm safety device tested with firearm. Firearm safety device tested without firearm.

(4) Shock Test

st the trearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture.

2.2 pound weight from a distance of one 38.4 lockes + 0.4 inches five times to the top of victor body aligned to impriore and penethate the locking flewyary or complication lock cuting o chucked blade-type Additionally, using the shock impact stature, drop = 2.2 pound weight from a distance of

Semplo No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	blade	10	Pass
1a, 3b	Firearm safety device tested without frearm.	rod	15	Pass

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APPENDIX 1 - LABORATORY TEST REPORT

			Record No.: F	SD302		
	This test is design	(5) Shackle or Cable Cut ed to determine the firearms safety device realstance to cutting for hand forces of 100 pounds force for	ross of 1,000 pounds force f	or solid metal	shackles or with	
	Sample No.	Test Condition	Max, Load (lbf.)	Time (s.)	Results	
	N/A	Firearm safety device tested with firearm.			(Pass/Fail)	
	NVA	Firearm safety device tested without firearm.	<u>-</u>		N/A	
	This test is dealgr	ned to test a cylinder lock's ability to withstand a pulling action to due to test a cylinder lock's ability to withstand a pulling action to deep. Apply a required tension of 255 pounds force satisfy by	listedge the plug from the cyl of size AB12 at least 0.75 in	nchea	e keyway with e	
	Sample No.	Test Condition	Max. Load (It		Results	
		X Finarm safety device tested with firearm.	+		(Pass/Fall)	1 1
	2a	Firearm safety device tested without firearm.	-		Pass) A.
]	(7) Plug Torque Te ed to lest the ability of a firearms safety device's knyway, if so equ with the	pipped, to withstand longue p	_	. ##.	83
		of to exceed 5/8 (nch) that will fit into the keyway, so that a force		40.7	Results	B. Jakob Wasi
	Sample No.	Test Condition	Max. Load (lbs	(6.)	(Pass/Fail)	
	1	X Firearm selety device tested with firearm.		30)		[<u>3</u>]
	2a	Firearm safety device tested without firearm.	- II	9.00 20.00	Pess	<u> </u>
		whill accomplish a lest using a standard carbon steel hackness be force of ten pounds. The test shall consist of 120 cycle no cutting cycle is defined as the complyration of one 6-inch (orwer	s, with he time limit, by her drand one black backwant	ļ.	Results	
	Sample No.	Test Condition	Cycles		(Pess/Fail)	
	2a, 4a	X Fiream selety device tested with fiream. Fiream selety device tested without freem.	120		Pass	
	32 522 1					í
	28. 3981	Brop Test			Resulta	
_	Sample No.	Sections (C) thris (F) do not apply to les			(Pass/Fall)	1
7516 71875		(A) Normal firing position with the barrel horizontal With the	ne locking mechanism ted	ing directly	Pass	
736 7070		(B) Upside down with the barrel horizontal/With the locking	ng machanism facing dire	ctly down.	Pass	
. K.	4a, 4b	(C) if the firearm is a handgun, on the grip v	vith the barrel vertical.		N/A	
	50,038 1,038,780,038	(D) On the muzzle with the bow	el vertical.	1	Pass	
	1	(E) On either side with the barrel	horizontal.		Pass	
	<u> </u>	(F) Exposed hammer or striker, otherwise on the re	carmost point of the weep	on.	Pass	
(g. 18€		ed at 1m drop height 5 drops each, sample 3b tested at 1. design keyway could not be drilled (hardend cylinder) and				
	(8) Sample tested Firearm Used: Rer Sample Descriptio	at cylinder lock on trigger guard behind trigger. mington, modol 870 Express Magnum, 12 ga., S/N (a) 878 i Internal locking machanism consisting of a cylinder lock fformed in accordance with the Amold/Childers	370XX & (b) 001809XX. at trigger guard (plastic)	behind trigge	er.	
	coerdication ma	ulrements and the results properly United States To	st Laboratory	Phone	316-832-1600	1
	reflect the perior		a, Wichila, KS 67219	Fax	316-832-1602	J

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January 10, 2003

Dear Mr. Teeters,

Attached you will find the test reports from the Remington Model 870 shotgun. As we had discussed on January 9, 2003 Remington Arms had submitted a Firearms Safety Device for testing on September 17, 2002. The plastic fire control assembly (trigger assembly) on the Model 870 shotgun was tested in accordance with all current DOJ procedures. This model passed the entire test. However, since there were cosmetic changes to be made before production it was decided that it would not be submitted for certification until the cosmetic changes could be incorporated.

On January 9, 2003 Remington Arms submitted the same type of fire control group for the Model 870 shotgun for certification testing with the cosmetic changes (two dots instead of one to indicate that the shotgun is in the unlocked position). The FSD passed all the requirements of the updated test until the manipulation with the screwdriver at the conclusion of the saw test. It was only after the screwdriver manipulation that was added to the test procedure on December 5th, 2002 that caused the device to fail.

You advised us that you would accept the test results from the September 17th test for certification purposes since it was conducted prior to the changes on December 5th. Your decision was based on a meeting you had with others in your department.

Also enclosed you will find one Remington Model 870 Shotgun with the cosmetically correct plastic fire control group installed, which was tested on September 17th, and an aluminum fire control group, which was tested on January 9, 2003 and passed all current testing procedures. You will notice that the material and functionality of the plastic version are identical. For your reference, we have enclosed a copy of the test report from January 9, 2003.

As always, should you have any questions please don't hesitate to call.

Best regards,

Richard Mouser President

Cc: Dale R. Danner, Remington Arms

Mouse

BARBER - 5.22.06r0009535



3448 N. Emporia 316-832-1600 Wichita, KS. 67219 Fax 316-832-1602

January 10, 2003

Remington Marlin Jiranek 315 W. Ring Rd. Elizabethtown, KY 42701

Dear Mr. Jiranek:

As per your request, United States Test Laboratory (USTL) conducted Firearm Safety Device test(s) as required by California Penal Code Sections 12088 and Regulation Section 977.45, Chapter 12.6, Division Title 11, California Code of Regulations.

The results of those tests are outlined below:

Model	Results	MARKET.	(20) (00)	(i)	30.5
870 Express Magnum Plastic Trigger Guard	Pass		7. 11.22 - 10.2	16 m	
870 Express Magnum Aluminum Trigger Guard	Pass		16 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A		

The test results indicate that the samples submitted met the requirements of the test specifications as noted above.

This conclusion is based on the samples tested and should not be interpreted as an assurance that the quality and/or performance of levices of the same or similar design or materials will meet these requirements. United States Test Laberatory does not certify or endorse this product. USTL emphasizes that Firearm Safety Devices have limitations and note that any such device can be defeated through the utilization of time, energy and tools. USTL is not liable for any injury, death or property damage as a result of the use or misuse of this product.

A copy of the test report and one sample has been forwarded to the California Department of Justice as required. United States Test Laboratory has also retained one sample for its archive.

Should you have any questions, please feel free to contact us.

Sincerely,

Richard Mouser

President

Attachment: California Compliance Test Report



CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT

FD 033 (Rev. 10-01)

The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections12088 and Regulation Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory Information

Laboratory	Reference Number/Identifier	FSD302		Date Submitted: _	1/10/03	
Certified Fi	rearms Safety Device Laborator	ту	United States Te	st Laboratory		8
Address:	3448 N. Emporia		acula			 - 1680
	Wichita, KS 67219		n in		305	
Name and T	Celephone Number of the DOJ-0	Certified Labo	oratory staff person	to be contacted r	egarding	
this report:	్ - సిగ్గి - సిగ్గి			ja.		
Richard W.	Mouser, 316-832-1600					
Date of Test	t:9/17/02			Time of Test:	1300-1500	
Location(s)	of lost, including any off-site l	ocations:	USTL	· · · · · · · · · · · · · · · · · · ·		
					-	
						
(**・*・* c (新夏?**	d Title(s) of laboratory staff wh	o conducted a	nd/or performed th	e required testing	;:	
Branden Arr	nold; Lab Technician					
Name(s) and procedure:	l business affiliations of all per	sons who have	e witnessed any par	t of the testing		
•	als of Reminator				•	
wariin Jiran	ek of Remington					
						

BARBER - 5.22.06r0009537 COMPLIANCE TEST REPORT Page 2 LABORATORY REFERENCE NUMBER: FSD302 FD 033 (Rev. 10-01) FIREARMS SAFETY DEVICE MODEL INFORMATION: Firearms Safety Device Type (check one): External: Internal: Integral: Make: Remington 870 Express Magnum Plastic Trigger Guard Model: Construction Material(s) (e.g., steel, alloy, etc.): Plastic Tested on which firearm(s) Type: Handgun: Revolver Longgun: Shotgun Other: (s): Remington, model 870 Express Magnum Firearms Make(s) and Model(s): Barrek Length(s): 28" Caliber(s): PRIMED CASE INFORMATION med Case Used: Manufacturer: Federal

Primer:	Federal	
No primed case was used. (Whe	en firearms safety device is properly installed, firearm is	

incapable of accepting cartridges)

COMPLIANCE TEST REPORT
LABORATORY REFERENCE NUMBER: FSD302

Page 3

FD 033 (Rev. 10-01)

FIREARMS SAFETY DEVICE MANUFACTURER OR DEALER INFORMATION

Firearms	Safety Device Submitted by: Remington	
Address:	315 W. Ring Rd., Elizabethtown, KY 42701	
Country:	USA	
Contact F	Person: Marlin Jiranek	Phone Number: 270-769-7645
	TEST RESULTS	83
Chapter 1	firearms safety devices have passed the test as define 12.6, Division 1, Title 11, California Code of Regulations safety device passed a specific test. If a test was not appear to the contraction of the	s. With a check mark, indicate that the
X	_(1) Picking or manipulation test	
X	_(2) Forced removal inspection	
N/A	_(3) Tensile test	
X	_(4) Shock test	
N/A	_(5) Spackle or cattle cutting test. In addition, provide r	·
XI.	measurements and a diagram, of where the shackle a (6) Plug pulling test- If the self tapping screw was not	
	in the testing procedure, provide the depth to which the and explain why it was not inserted at least 3/4-inch.	ne self tapping screw was inserted
X	_(7) Plug torque test	
X	_(8) Sawing test- In addition, provide measurements ar a diagram, of where the firearms safety device was at	
X	_(9) Drop test	

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD302

Page 4

FD 033 (Rev. 10-01)

Firearms Safety Device Standards

The tested firearms safety device meets the standards in Regulation Section 977.44, Chapter 12.6, Division 1, Title 11, California Code of Regulations.

Division 1, Title 11, California Code of Regulations.
(a) The firearms safety device is of a design that will not allow its removal or deactivation except by utilizing a key, combination, or other unique method as intended by the manufacturer to allow access only authorized users. (Please indicate locking system)
(1) If a combination locking system, there are a minimum of 1,000 possible combinations consisting of a minimum of three numbers, letters, or symbols per combination.
(2) If a key locking system, the key locking system shall be unique to the manufacture firearms safety device(s)).
X (3) Other: special "J" shaped key
(b) The firearms safety device renders the firearm inoperable (unable to fire) while the firearms safety device is properly installed.
c)The firearms safety device functions by at least one of the fellowing methods (please indicate all applicable methods): X (1) By blocking travel of the trigger, striker, fiting pitt or hammer.
(2) By preventing the action or cylindar from closing. (3) By preventing its chamber(s) from accepting or holding a cartridge. (4) By preventing accepts to the firearm.
(d) The firearms safety device scapable of repeated use
X The tested device meets all of the above standards.
I declare under penalty of perjury according to the laws of the State in which this report was
Signature: Richard Mouser
Name/Title (Printed): Richard W. Mouser, President
Date: 1/10/03

Test Date:

Date Received: 9/16/02

Via:

Fed Ex

Record No:

FSD302 9/17/02

Returned Via: Fed Ex

Customer:

Remington

Sample

Manufacturer: Remington

Integral

Body Height: Body Width:

N/A in.

Lock Type: Key Type:

Key-Other

Body Depth:

N/A in. N/A in.

Model:

870 Express Magnum

Shackle/Cable Dia.:

Sample Dimensions

N/A in.

Serial/Lot:

N/A

Shackle/Cable Length:

N/A in.

Test Spec.:

N/A lbs.

California Title 11, Div. 1, Ch. 12.6 Weight:

Cylinders in the fire	(1) Picking or Manipulating Test Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each.						
L	Combination locks shall resist manual manipulati						
Sample No.	Test Condition	Tool	Time Results (min') (Pass/Faib):	3			
1a	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper clip #1 paper clip 1.4 rrm screwdriver	2 Pass 2 Pass 2 Pass				

	(2) Forced Removal Inspection	
Inspect the fiream	and firearms safety device to determine if the firearms safety device is of such a design that it may not be dis from the firearm through the partial destruction of the firearm with common household tools.	sabled or removed
Sample No.	Description/Explanation	Results (Pass/Fail)
1a ,	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass

I	A STANFORM	(3) Tensile Test do to test the strength of the firearm safety device utilizing a pulling ac				
	This test is designe	d to test the strength of the firearm safety device utilizing a pulling ac	tion. Apply 225 pounds force slowly alor	ng the central axis		
1		of the firearms safety device locking components without interlering or giving support to either the mating locking components of the firearms safety device.				
	Sample No	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)		
1	427 57	Firearm safety device tested with firearm.		_		
7	N/A	Firearm safety device tested without firearm.	-	N/A		

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool.

Sample No.	Test Condition		Tool	Drops	Results (Pass/Fail)
	х	Firearm safety device tested with firearm.	blade	10	Pass
1a, 3b		Firearm safety device tested without firearm.	rod	15	Pass

Record No.: ____FSD302

(5) Shackle or Cable Cutting Test This test is designed to determine the firearms safety device resistance to cutting forces of 1,000 pounds force for solid metal shackles or with hand forces of 100 pounds force for cables.					
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)	
N/A	Firearm safety device tested with firearm. Firearm safety device tested without firearm.		-	N/A	

(6) Plug Pulling Test							
This test is design	This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches						
	deep. Apply a required tension of 225 pounds force axially between the case and installed screw.						
Sample No. Test Condition Max. Load (lbf.) Res (Pass							
X Firearm safety device tested with firearm.							
2a	Firearm safety device tested without firearm.	-	Pass				

with the							ar a screwing
largest flat blade ((not to exceed	15/8 inch) that will fit into the keyway, so that a torq	ue lo	ad of 89 pounds	force-inches ca	n be ap	
Sample No.		Test Condition	-eri	Max. Lo	oad (lbs/in.)	in the	Results (Pass/Fail)
	Х	Firearm safety device tested with firearm.	26	Kajara ing	() 1973	,-	
2a		Firearm safety device tested without firearm	. "	1270 1102 128845	_3i-		Pass

(7) Plug Torque Test

The testing agent shall accomplish a test ising a standard carbon steel hackship blade with 32 teeth per inch with a constant vertical downward force of ten pounds. The test shall consist of 120 cycles, with no time limit, by hand. One cutting cycle adefined as the combination of one 6-inch forward and one 6-inch backward cutting motion.				
Sample No. Test Condition	Cycles	Results (Pass/Fail)		
X Firearm safety device tested with firearm. 2a, 4a Firearm safety device tested without firearm.	120	Pass		

.0,000	∠a, 4a	*Figearm safety device tested without firearm.	120	Pass
	W.	Drop Test		
re Se	Sampte No.	Sections (C) thru (F) do not apply to lock-box t	ype devices.	Results (Pass/Fail)
163	7	(A) Normal firing position with the barrel horizontal/With the lockin up.	ng mechanism facing directly	Pass
		(B) Upside down with the barrel horizontal/With the locking mech	nanism facing directly down.	Pass
	4a, 4b	(C) If the firearm is a handgun, on the grip with the	barrel vertical.	N/A
		(D) On the muzzle with the barrel vertice	al.	Pass
		(E) On either side with the barrel horizon	ntal.	Pass
		(F) Exposed hammer or striker, otherwise on the rearmost	t point of the weapon.	Pass

REMARKS/NOTES

(4) Sample 1a tested at 1m drop height 5 drops each, sample 3b tested at 1.5m drop height and 5 drops blade and 10 drops rod. (6)(7) Due to FSD design keyway could not be drilled (hardend cylinder) and a torque load of 89 in/lbs. could not be attained (keyway size).

(8) Sample tested at cylinder lock on trigger guard behind trigger.

Firearm Used: Remington, model 870 Express Magnum, 12 ga., S/N (a) B78370XX & (b) D01809XX.

Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard (plastic) behind trigger.

This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.

United States Test Laboratory Phone 3448 N. Emporia, Wichita, KS 67219 Fax

Phone 316-832-1600 9 Fax 316-832-1602

Page 2 of 2

Arnold/Childers





CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT

FD 033 (Rev. 10-01)

The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections 12088 and Regulation Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory Information

	Laboratory Re	eference Number/Identifier	FSD322		Date Submitted:	1/10/03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Certified Fires	arms Safety Device Laborato	ry	United States	Test Laboratory		83
	Address:	3448 N. Emporia		47.			168°
		Wichita, KS 67219	_			335-7	
	this report:	ephone Number of the DOJ-	Certified Labo	rators staff per	son to be contacted re	garding	
	Date of Test:	1/9/03 Test, including any off-site	ocations:	USTL	Time of Test: 0	800-1000	
	Name(s) and T	Fitle(s) of laboratory staff wh	o conducted a	nd/or performe	d the required testing:		
, ne	Branden Arno	ld and Chad Childers; Lab To	echnicians		· · · · · · · · · · · · · · · · · · ·		
	procedure:	ousiness affiliations of all per	sons who have	witnessed any	part of the testing		
_			.				

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER:

FS	D3	22	

Page 2

FD 033 (Rev. 10-01)

FIREARMS SAFETY DEVICE MODEL INFORMATION:

Model: 870 Express Magnum Aluminum Trigger Guard Construction Material(s) (e.g., steel, alloy, etc.): Aluminum Tested on which firearm(s) Type: Handgun: Revolver Pistol Longgun: Shotgun X Rifle Other: Firearms Make(s) and Model(s): Remington, model 870 Express Magnum Caliber(s): 12 gauge BarrefEength(s): 28" PRIMED CASE INFORMATION Primed Case Used: Manufacturer: Federal Primer: Federal		Remington		
Tested on which firearm(s) Type: Handgun: RevolverPistol	Model:	870 Expres	ss Magnum Aluminum	m Trigger Guard
Type: Handgun: RevolverPistol	Construc	tion Material	(s) (e.g., steel, alloy, e	etc.): Aluminum
Other: Firearms Make(s) and Model(s): Remington, model 870 Express Magnum Caliber(s): 12 gauge Barrel Eength(s): PRIMED CASE INFORMATION Frimed Case Used: Manufacturer: Federal	Tested o			/erPistol
Caliber(s): 12 gauge Barref Eengfh(s): 28" PRIMED CASE INFORMATION Primed Case Used: Manufacturer: Federal				un X Riffe
PRIMED CASE INFORMATION Frimed Case Used: Manufacturer: Federal	Firearms	Make(s) and M	Model(s): Remino	ngton, model 870 Express Magnum
rimed Case Used: Manufacturer: <u>Federal</u>	Caliber(s)	12 gauge	e Barrel\E	Eength(s): <u>28"</u>
			PRIMED	D CASE INFORMATION
Primer: <u>Federal</u>	rimed C	ase Used:	Manufacturer:	Federal
			Primer:	Federal
		•		and the second s
No primed case was used. (When firearms safety device is properly installed, firearm is incapable of accepting cartridges)	ncapable			

COMPLIANCE TEST REPORT	
LABORATORY REFERENCE NUMBER: FSD322	

Page 3

FD 033 (Rev. 10-01)

FIREARMS SAFETY DEVICE MANUFACTURER OR DEALER INFORMATION

Country:	USA						
Contact	Person:	Marlin Jira	anek		Phone	Number: <u>270-</u>	769-7645
The four	firearme	oofot i dovise		EST RESUL		sticas (Ocation	077016
					defined in Regu Jlations. With a		
					not applicable		
Х	_(1) Picki	ing or manip	ulation test				žů»
<u> </u>	_(2) Forc	ed removal i	nspection 🧬			, 12 le 2.	
N/A	_(3) Tens	sile test			The state of the s		
X	_(4) Shor	ak test ੈ 🧗 🥞		3882			
N/A					ovide measurem		
					ackle and/or cab as not inserted a		
					hich the self tap		
100 mg/m			as not inserted			ŭ	
X	_(7) Plug	torque test					
Х			ddition, provid the firearms s		ents and a descr was attacked.	iption, or meas	surements and

COMPLIANCE TEST REPORT	Page 4
LABORATORY REFERENCE NUMBER: FSD322	
FD 033 (Rev. 10-01)	
Firearms Safety Device Standards	
The tested firearms safety device meets the standards in Regulation Solivision 1, Title 11, California Code of Regulations.	ection 977.44, Chapter 12.6,
Division 1, Title 11, Camornia Code of Regulations.	
(a) The firearms safety device is of a design that will not allow its remove	val or deactivation except by
utilizing a key, combination, or other unique method as intended by the	manufacturer to allow
access only authorized users. (Please indicate locking system)	
(1) If a combination locking system, there are a minimum of 1,00	00 possible combinations
consisting of a minimum of three numbers, letters, or symbols p	
(2) If a key looking quoteen the house like a contain the life of	
(2) If a key locking system, the key locking system shall be uniq firearms safety device(s)).	ue to the manuracturers:
mount outsity device(d)).	
X (3) Other: special "J" shaped key	
(b) The fire was eafer, device and the fire was to be ()	
(b) The firearms safety device renders the firearm inoperable (unable to safety device is properly installed.	o rite) while the firearms
and the second to properly moduled.	
(c)The firearms safety device functions by at least one of the following methods	s (please indicate all applicable
methods): X (1) By blocking travel of the trigger, striker, I ling 5th, or hammer.	
(2) By preventing the action or cylinder from closing.	
(3) By preventing the chamber(s) from accepting or holding a car	tridge.
(4) By preventing access to the firearm.	•
(d) The fireness extens double of recented use	
(d) The firearms eafety device is capable of repeated use.	
X The tested device meets all of the above standards.	
	detale their mean of any
I declare under penalty of perjury according to the laws of the State in we executed that all statements made in this report and Attachment A are to	
oxocated that an elaternessee made in the report and state mostly are a	ao ana compicto.
Signature: Support Mouse	
Name/Title (Printed): Richard W. Mouser, President	
Date: 1/10/03	

Date Received: 1/7/03 Via: Fed Ex Record No: Test Date:

FSD322 1/9/03

Returned Via: Fed Ex

Customer:

Remington

Sample

Sample Dimensions

Manufacturer: Remington Lock Type: Internal

Body Height: Body Width: Body Depth:

N/A in. N/A in. N/A in.

Key Type: Model:

Special 870 Exp. Mag.

Shackle/Cable Dia.:

N/A in. N/A in.

Serial/Lot: Test Spec.:

Aluminum California Title 11, Div. 1, Ch. 12.6

Shackle/Cable Length: Weight:

N/A lbs.

Pass

1.4 mm screwdriver

	(1) Picking or Manipulating Test							
Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that in the keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes.								
Sample No.	Test Condition	Tool	Time Results (min.) (Pass/Fail) 3					
1	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper elip #1 paper elip	2 Pass					

	(2) Forced Removal Inspection						
Inspect the fiream	Inspect the firearm and firearms safety device to determine if the firearms safety device is of such attempted the man onto be disabled or removed from the firearm through the partial destruction of the firearm with common household tools.						
Sample No.	Description Explanation	Results (Pass/Fail)					
	Firearm safety sevice does not appear that I may be disabled through the partial destruction of the filearm with common household tools.						
1	Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass					

	(3) Tensile Test		
This test is designe	d to test the strength of the firearm safety device utilizing a pulling ac		ng the central axis
	of the firearms safety device locking con without interfering or giving support to either the mating locking com	mponents nonents of the firearms safety device	
Sample No.	Total Condition		Results
	Test Condition	Max. Load (lbf.)	(Pass/Fail)
(2) (1) (1) (2) (2)	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	•	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool.

Sample No.		Test Condition	Tool	Drops	Results (Pass/Fail)
	Х	Firearm safety device tested with firearm.	blade	5	Pass
1		Firearm safety device tested without firearm.	rod	5	Pass

	w.	Record No.: FS	SD322	
	(5) Shackle or Cable Cutti	ng Test		
This test is design	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for c	•	or solid metal	shackles or with
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	-	N/A

	(6) Plug Pulling Test								
This test is desi	This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a required tension of 225 pounds force axially between the case and installed screw.								
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)						
	X Firearm safety device tested with firearm.								
2	Firearm safety device tested without firearm.	-	Pass						

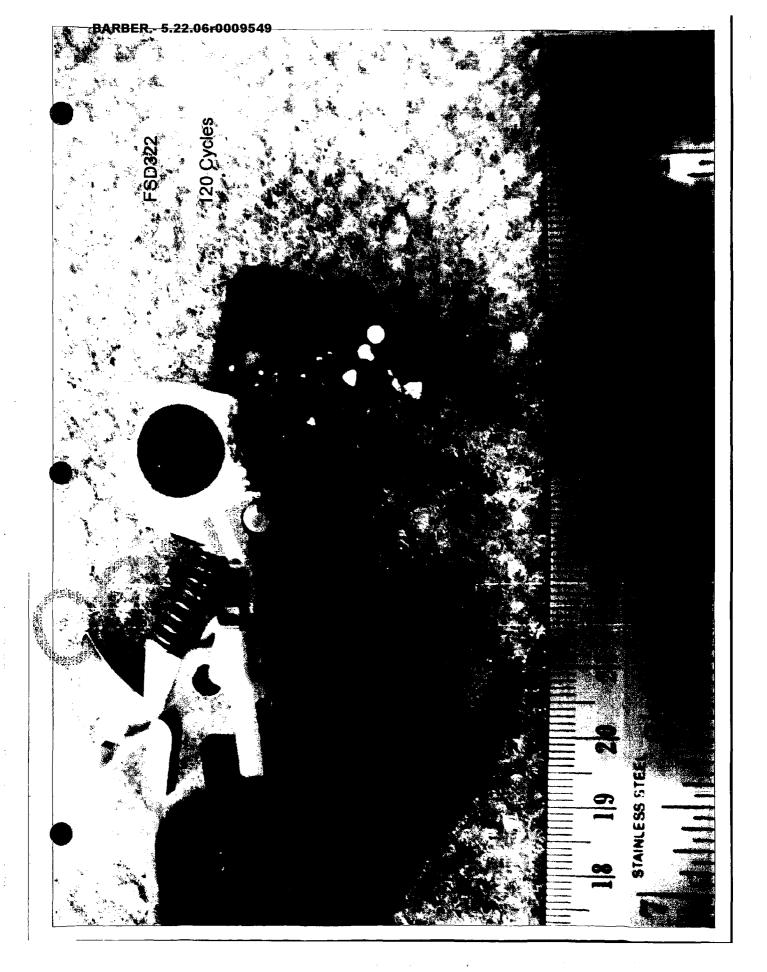
	(7) Plug Torque Test). The second se
This test is desig	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	ert a screwdriver
	with the	
largest flat blade ((not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds force-inches can be ap	plied to the plug.
Sample No.	Test Condition Max. Load (lbs/in.)	Results
Cample No.		(Pass/Fail)
	X Firearm safety device tested with firearm.	
2	Firearm safety device tested without firearm.	Pass

The testing agent shall accomplish a test using a standard carbon steel hackeaw blade very force of ten pounds. The test shall cars st of 120 cycles, we One cutting cysle is believed as the combination of one 6-inch forward an	vith no time limit, by hand.	
Sample No. Test Condition	Cycles	Results (Pass/Fail)
Firearm safety device tested with firearm. 2 Firearm safety device tested without firearm.		
2 Firearm safety device tested without firearm.	120	Pass

	Drop Test	
Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)
	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass
	(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass
3	(C) If the firearm is a handgun, on the grip with the barrel vertical.	N/A
	(D) On the muzzle with the barrel vertical.	Pass
	(E) On either side with the barrel horizontal.	Pass
	(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass

REMARKS/NOTES			
(6)(7) Due to FSD design keyway could not be drilled (har	dend cylinder) and a torque load of 89 in/lbs	s. could not	be
attained (keyway size).			
Firearm Used: Remington, model 870 Express Magnum,			
Sample Description: Internal locking mechanism consisting	ig of a cylinder lock at trigger guard (alumini	um) behind	trigger.
THIS tost was performed in decoration with	Arnold/Childers		
specification requirements and the results properly	United States Test Laboratory	Phone	316-832-1600
reflect the performance of the listed sample.	3448 N. Emporia, Wichita, KS 67219	Fax	316-832-1602

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ET47682

Date Received: 1/7/03

Record No:

FSD320

Via:

É

Fed Ex

Test Date: Customer: 1/9/03

Returned Via: Fed Ex

Remington

<u>Sample</u>

Manufacturer: Remington

Sample Dimensions
Body Height:

N/A in.

Lock Type:

Internal

Body Width:

N/A in.

Key Type:

Special

Body Depth:

N/A in.

Model:

870 Exp. Mag.

Shackle/Cable Dia.:

N/A in.

Serial/Lot:

Synthetic

Shackle/Cable Length:

N/A in.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6

Weight:

N/A lbs.

(1) Picking or Manipulating Test Cylinders in the firearms safety device shall resist picking with use of paper clips (jurnbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes.				
Sample No.	Test Condition	Tool	Time (t)	Results ' (Pass/Fail)
1	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper clip #1 paper clip 1.4 mm screwdriver	2 2 2	Pass. 83

nspect the firearm	and firearms safety device to determine if the firearms safety device is of such a design that it may not be dis from the firearm through the partial destruction of the firearm with commercial books.	abled or remove
Sample No.	Description/Explanation	Results (Pass/Fail)
	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools.	
1	Firearm safety device appears that it may be disabled through the partial destruction of the stearm with common household tools.	Pass

	100 00 00 00 00 00 00 00 00 00 00 00 00	(3) Tensile Test		
		g to test the strangth of the firearm safety device utilizing a pulling ac of the firearms safety device locking con without interfering or giving support to either the mating locking com	mponents	ng the central axis
	Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
200 E		Firearm safety device tested with firearm.		
	N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool. Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of 39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool. Results **Test Condition** Sample No. Tool Drops (Pass/Fail) X Firearm safety device tested with firearm. blade 5 Pass Firearm safety device tested without firearm. rod 5 1 Pass

		Record No.: F	SD320	·
	(5) Shackle or Cable Cutti	ng Test		
This test is designed t	o determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for	•	or solid metal	shackles or with
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	-	-	N/A

FSD320

 $\frac{(10)^{n}}{(10)^{n}} = 0$

	(6) Plug Pulling Test	<u> </u>	
This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 dlameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches deep. Apply a required tension of 225 pounds force axially between the case and installed screw.			
Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.		
2	Firearm safety device tested without firearm.	-	Pass

This test is design	ned to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Inse	rf a screwdiiv er 3		
	with the			
largest flat blade (largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pourids cree-inches can be applied to the plug.			
Sample No.	Test Condition Max. Load (lbs/in.)	Results		
		(Pass/Fail)		
	X Firearm safety device tested with firearm.			
2	Firearm safety device tested without firearm.	Pass		

(7) Plug Torque Test

),	
The testing agent shall accomplish a test using a standard carbon size hacks and blade wing force of ten pounds. The test shall consist of 120 cycles, wing the combination of one 6-inch forward and	th no time limit, by hand.	
Sample No. Test Condition	Cycles	Results (Pass/Fail)
X Firearm safety device tested with firearm. 2 Fitearm safety device tested without firearm.	120	Fail

. (14.6)	2	"Fitearm safety device tested without firearm.	120	Fail
		Drop Test		
	Sample No.	Sections (C) thru (F) do not apply to lock-box	type devices.	Results (Pass/Fail)
****************	5.0°	(A) Normal firing position with the barrel horizontal/With the locki up.	ing mechanism facing directly	Pass
		(B) Upside down with the barrel horizontal/With the locking med	chanism facing directly down.	Pass
	3	(C) If the firearm is a handgun, on the grip with the	e barrel vertical.	N/A
		(D) On the muzzle with the barrel verti	cal.	Pass
		(E) On either side with the barrel horizo	ntal.	Pass
		(F) Exposed hammer or striker, otherwise on the rearmos	st point of the weapon.	Pass

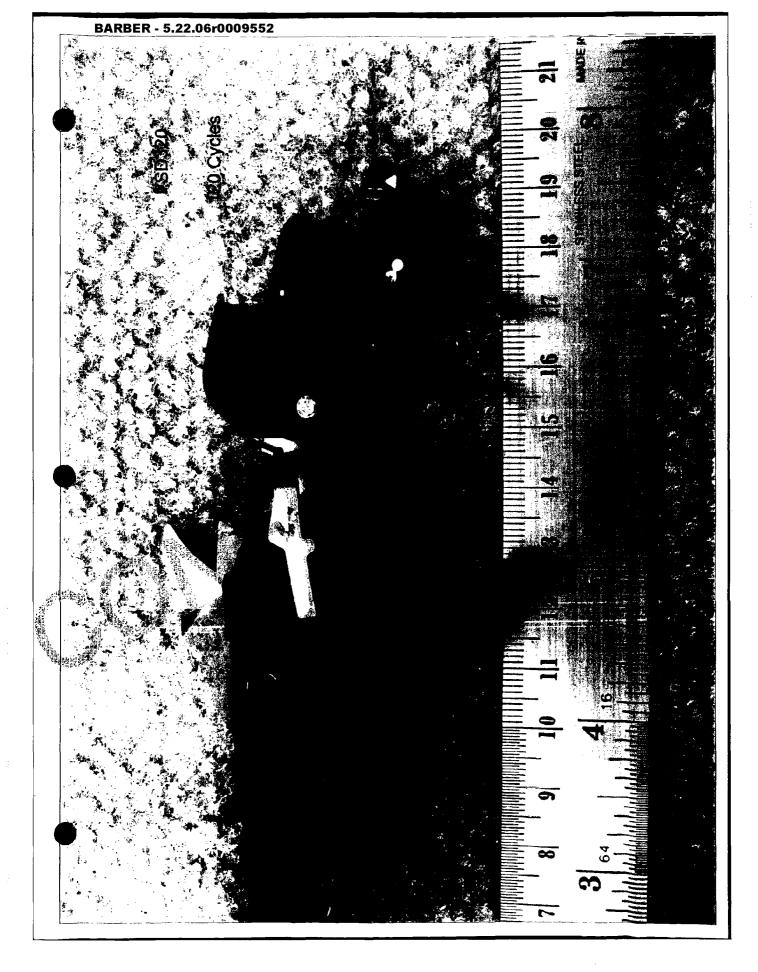
() = period in the control of the control period in the control of the control o
REMARKS/NOTES
(6)(7) Due to FSD design keyway could not be drilled (hardend cylinder) and a torque load of 89 in/lbs. could not be
attained (keyway size).
(8) Fiream discharged during 2 min. manipulation after Sawing Test.
Firearm Used: Remington, model 870 Express Magnum, 12 ga., S/N (a) B40014XX & B36525XX.

Sample Description: Internal locking mechanism consisting of a cylinder lock at trigger guard (plastic) behind trigger.

This test was performed in accordance with the Arnold/Childers

specification requirements and the results properly reflect the performance of the listed sample. United States Test Laboratory Phoi 3448 N. Emporia, Wichita, KS 67219 Fax 316-832-1600 316-832-1602

Page 2 of 2



ET47685

Date Received: 1/7/03
Via: Fed Ex
Returned Via: Fed Ex

Record No:

FSD321

Test Date: Customer: 1/9/03 Remington

Sample

Sample Dimensions

Manufacturer: Remington
Lock Type: Internal

Body Height: Body Width: N/A in. N/A in.

Key Type: Model:

Special 597 Mag.

Body Depth: Shackle/Cable Dia.: N/A in. N/A in.

Serial/Lot:

Synthetic

William Co.

Shackle/Cable Length:

N/A in.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6

Weight:

N/A lbs.

	(1) Picking or Manipulatir	ng Test	
Cylinders in the fire	earms safety device shall resist picking with use of paper clips (jumbo in the keyway for two minutes ea Combination locks shall resist manual manipulal	ich.), and small screwdrivers that fit
Sample No.	Test Condition	Tool	Time Results (min.) (Pass/Fail) -
1	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper clip #1 paper clip 1.4 mm screwdriver	2 Pass 2 Pass 2 Pass

	(2) Forced Removal Inspection	
Inspect the firearm	and firearms safety device to determine if the firearms safety device is of such edesign that it may not be dis	abled or removed
ļ	from the firearm through the partial destruction of the firearm with common household tools.	
Sample No.	Description/Explanation	Results (Pass/Fail)
1	Firearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools. Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass

		(3) Tensile Test		
		to test the strength of the firearm safety device utilizing a pulling ac of the firearms safety device locking cor without interfering or giving support to either the mating locking com	mponents	ng the central axis
	Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
**************************************	i.	Firearm safety device tested with firearm.		
1.000	N/A	Firearm safety device tested without firearm.	-	N/A

(4) Shock Test

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool.

Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool.

Sample No.		Test Condition	Tool	Drops	Results (Pass/Fail)
	х	Firearm safety device tested with firearm.	blade	5	Pass
1		Firearm safety device tested without firearm.	rod	5	Pass

REMARKS/NOTES

Record No.: FSD321

	(5) Shackle or Cable Cutting	ng Test				
This test is desig	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for o		or solid metal :	shackles or with		
Sample No. Test Condition Max. Load (lbf.) Time (s.)						
	Firearm safety device tested with firearm.					
N/A	Firearm safety device tested without firearm.	•	-	N/A		

This test is design	(6) Plug Pulling Test gned to test a cylinder lock's ability to withstand a pulling action to dislod number 20 diameter drill bit and insert a self tapping screw of si deep. Apply a required tension of 225 pounds force axially between	ze AB12 at least 0.75 inches	Il the keyway with a
Sample No.	mple No. Test Condition Max. Load (Results (Pass/Fail)
	X Firearm safety device tested with firearm.		
2	Firearm safety device tested without firearm.		Pass

This test is desig	(7) Plug Torque Test ned to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Inse	83 ert a screwolfver
	with the	
largest flat blade	(not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds raice-inches can be ap	pplied to the plug.
Sample No.	Test Condition Max. Load (lbs/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	
2	Firearm safety device tested without firearm.	Pass

The testing agent shall accomplishes lest using a standard carbon sheel harksaw blade with 32 teeth per inch with a constant vertical downward force of ten pounds. The test shall so issist of 120 cycles, with no time limit, by hand.

One cutting cycle is defined as the combination of one 6-inch forward and one 6-inch backward cutting motion.

Sample No.

Test Condition

Cycles

Results (Pass/Fail)

X Firearm safety device tested with firearm.

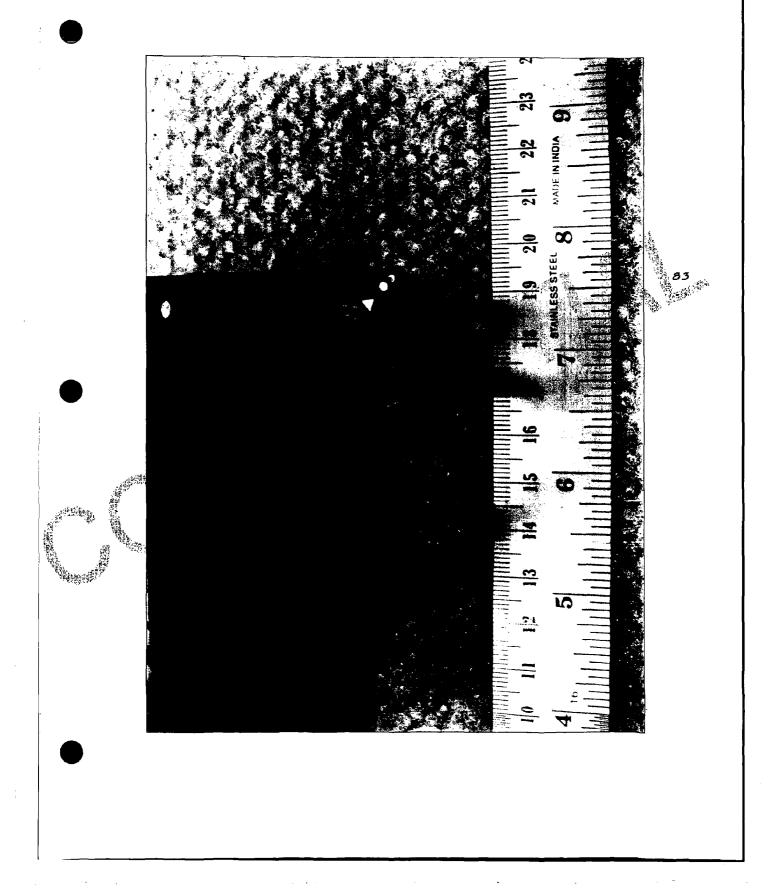
2 Firearm safety device tested without firearm.

60 Fail

	2	Firearm safety device tested without firearm.	60	Fail
		Drop Test		
W	Sample No.	Sections (C) thru (F) do not apply to lock-box	type devices.	Results (Pass/Fail)
2442G33333		(A) Normal firing position with the barrel horizontal/With the lock up.	king mechanism facing directly	Pass
		(B) Upside down with the barrel horizontal/With the locking me	chanism facing directly down.	Pass
	3	(C) If the firearm is a handgun, on the grip with th	e barrel vertical.	N/A
		(D) On the muzzle with the barrel vert	ical.	Pass
		(E) On either side with the barrel horize	ontal.	Pass
		(F) Exposed hammer or striker, otherwise on the rearmo	st point of the weapon.	Pass

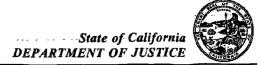
(6)(7) Due to FSD design keyway could not be drilled (hardend cylin	ider) and a torque load of 89 in/lb	s. could not	be
attained (keyway size).			
Firearm Used: Remington, model 597 Magnum, 22 LR, S/N (a) 291			
Sample Description: Internal locking mechanism consisting of a cyl	nder lock at trigger guard (plastic) behind trig	ger.
This test was performed in accordance with the Arnold/	Childers		
	States Test Laboratory	Phone	316-832-1600
reflect the performance of the listed sample. 3448 N.	Emporia, Wichita, KS 67219	Fax	316-832-1602

Page 2 of 2



ET47689

BILL LOCKYER Attorney General



P.O. BOX 160487 SACRAMENTO, CA 95816-0487 Facsimile: (916) 263-0676 (916) 263-0802

January 28, 2003

Marlin Jiranek Remington Arms Company, Inc. 315 West Ring Road Elizabethtown, KY 42701

RE: Firearms Safety Device Testing Results

Dear Mr. Jiranek:

The Department of Justice (DOJ) Firearms Division recently received the Firearms Safety Device Compliance Test Reports and samples of the Remington 870 Express Magnum Aluminum Trigger Guard and Remington 870 Express Magnum Plastic Trigger Guard The reports and samples have been analyzed by the Firearms Safety Device Review Committee.

Upon review of the laboratory cover letter, the laboratory test reports and accompanying photos, the Committee concludes that the Remington 870 Express Magnum Aluminum Trigger Guard and Remington 870 Express Magnum Plastic Trigger Guard met the minimum testing standards that were in place at the time of their testing. Based on the results of these tests, the Committee is certifying these firearms safety devices for use in California. However, the Committee does not provide this certification for the Remington 870 Express Magnum Plastic Trigger Guard without some reservation.

As you know the testing standards outlined in the Regulations for Certified Firearms Safety Device Laboratories, Firearms Safety Device Testing and Standards, and Standards for Gun Safety were modified effective December 4, 2002. It is not the Department's intention to require previously tested and approved firearms safety devices to be retested to the latest standard. Your company has been forthright in informing the Committee that while the Remington 870 Express Magnum Plastic Trigger Guard was capable of passing the testing standard in place at the time of the original testing (September 17, 2002), further investigative testing requested by Remington has shown the same plastic trigger guard is not capable of passing the standard in effect today. We will honor testing results performed prior to December 4, 2002 (as was the case with the Remington 870 Express Magnum Plastic Trigger Guard). However, the fact that the Remington 870 Express Magnum Plastic Trigger Guard does not meet the current standard causes us concern. The reason the Department changed the approximate 10 minute testing standard to include manipulation with a screwdriver was because it was determined that manipulation could be a key factor in testing a firearms safety device against intrusion.

Marlin Jiranek January 28, 2003 Page 2

Upon return of the enclosed Listing Request forms, the Remington 870 Express Magnum Aluminum and/or Plastic Trigger Guards will be listed on the Roster of Firearms Safety Devices Certified for Sale. Although, in light of the circumstances you may wish to reconsider your decision to market the Remington 870 Express Magnum Plastic Trigger Guard as a DOJ-approved product.

If you have any questions, please call me at (916) 263-0802.

Sincerely,

TIM RIEGER, Deputy Attorney General

Firearms Division

For BILL LOCKYER Attorney General

st

Enclosure

cc: United States Test Laboratory

BILL LOCKYER Attorney General



P.O. BOX 160487 SACRAMENTO, CA 95816-0487 Facsimile: (916) 263-0676 (916) 263-0849

January 28, 2003

Marlin Jiranek Remington Arms Company, Inc. 315 West Ring Road Elizabethtown, KY 42701

RE: California Firearms Safety Device Certification

Dear Mr. Jiranek:

The Firearms Division has received the Compliance Test Reports and firearms safety devices for the models indicated on the enclosed Listing Requests. Pursuant to section 977.85. Title 11, Division 1, Chapter 12.6, of the California Code of Regulations, these firearms safety devices will be added to the Roster of Approved Firearms Safety Devices.

There is a certification section at the bottom of each Listing Request. To ensure that the Roster of Certified Firearms Safety Devices contains correct information regarding your firearms safety device, please review the Listing Request, and answer the questions for the model indicated on each certification form. In addition, if the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing, you may provide a listing of these firearms or the dimensions of firearms with characteristics that will allow your device to perform in a safe and proper manner. For example: you may specify a make and model of firearm; specific or range of calibers; types (pistol, revolver, shotgun, rifle, etc.) or firearms with a trigger guard that is X-inches long and X-inches wide, etc. The information regarding the firearm(s) on which the firearms safety device was tested and the additional firearm(s) for which you certify that the firearms safety device can be properly used will be included on the Roster of Certified Firearms Safety Devices. The certification must be completed by a representative of the company, signed, and returned to the Division.

If you have any questions, please call me at (916) 263-0849.

Sincerely,

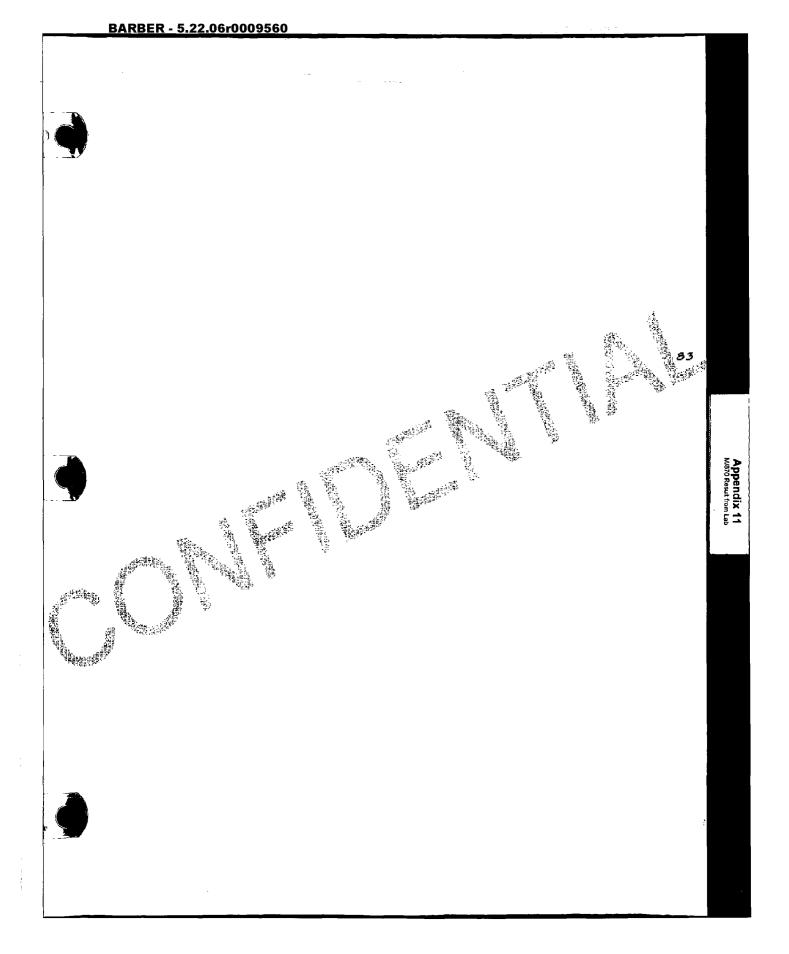
Som Josta

STEVEN TEETERS, Analyst

Firearms Information Services Section

For BILL LOCKYER Attorney General

Enclosure



BARBER - 5.22.06r0009561



November 21, 2003

Remington Marlin Jiranek 315 W. Ring Rd. Elizabethtown, KY 42701

Dear Mr. Jiranek:

As per your request, United States Test Laboratory (USTL) conducted Firearm Sarety Device est(s) as required by California Penal Code Sections 12088 and Regulation Section 377.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations.

The results of those tests are outlined below:

Model	Ï	Results
870 Express Plastic Two-Dot ISS Trigger Guard	Ī	Pass
870 Express Aluminum Two Dot ISS Frigger Guard	1	Pass

The test results indicate that the samples submitted met the requirements of the test specifications as noted above.

This conclusion is based on the samples tested and should not be interpreted as an assurance that the quality and/or performance of devices of the same or similar design or materials will meet these requirements. United States Test Laboratory does not certify or endorse this product. USTL emphasizes that Firearm Safety Devices have limitations and note that any such device can be defeated through the utilization of time tenergy and tools. USTL is not liable for any injury, death or property damage as a result of the use or missise of this product.

A copy of the test report and one sample has been forwarded to the California Department of Justice as required. United States Test Laboratory has also retained one sample for its archive.

Should you have any questions, please feel free to contact us.

Sincerely,

Richard Mouser

President

Attachment: California Compliance Test Report

ET47694



CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT

FD 033 (Rev. 10-01)



The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections12088 and Regulation Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory Information

Laboratory	Reference Number/Identifier FSD429	Date Submitted:
Certified F	irearms Safety Device Laboratory	United States Test Laboratory
Address:	7447 W. 33rd St. N.	
	Wichita, KS 67205	
this report:		poratory staff person to be contacted regarding
Date of Te	Mouser, 316-832:1600	Time of Test: 0800-1145
Location(s	of Test, including any off-site locations:	USTL
Name(s) ar	d Title(s) of laboratory staff who conducted	and/or performed the required testing:
Richard Mo	ouser; President	
Branden A	mold; Lab Technician	
Name(s) an	d business affiliations of all persons who have	ve witnessed any part of the testing

		FIREARMS SAFETY	DEVICE MOD	EL INFORMA	TION:	
Firearms	Safety Device	e Type (check one): Exter	nal: X	Internal:	Integral	: <u></u>
Make:	Remingtor	1		. <u></u>		
Model:	870 Expre	ss Aluminum Two-Dot	ISS Trigger Gu	ard		
Construc	tion Materia	l(s) (e.g., steel, alloy, e	etc.): Ti	rigger Guard [.]	Aluminum; Trigg	rer: Steel
Lock Bol		, (c, (c, g, , c, c, c, , a, c, , , , , , , , , , ,		99	200 200 200 200 200 200 200 200 200 200	
	n which fireatype: Type: Make(s) and I : 12 gaug	Handgun: Revolver Longgun: Shotgun Other: Model(s): Reming Barrel Le	ton, 870 Expres	3.0"		
		PRIMED	CASE INFORM	MATION		
Primed C	ase Used:	Manufacturer:	Fiocchi			
		Primer:	Fiocchi			

COMPLIANCE TEST REPORT

	FD 033 (Re		EFERENCE NUMBE	R: FSD429		
		FIREA	RMS SAFETY DEV	CE MANUFACTURER	OR DEALER INFORM	MATION
	Firearms	Safety De	evice Submitted by:	Remington		
	Address:	315 W.	Ring Rd., Elizabetht	own, KY 42701		
	Country:	USA				
	•			· · · · · · · · · · · · · · · · · · ·		
	Contact P	erson:	Marlin Jiranek		Phone Number: 2	70-769-7645
				TEST RESULTS		83
	The four f	īrearms s	safety devices have	passed the test as define	ed in Regulations Sec	tion 977.45.
	-			ornia Code of Regulation	160°, 1613- NA	at at a
•	mearms s	arety dev	rice passed a specifi	ic test. If a test was not a	ipplicable, indicate sc	WITH IN/A.
_	Х	(1) Picki	ng or manipulation t	est	1750 1760 6 1760 1888 2 1580	
		_			n.	
	<u> </u>	_(2) Force	ed removal inspection	on ()		
	.	ω − ∞				
	N/A	(3) Tens	ue test			
	X	(4) Shoc	k test			
, ič	1					
非理解和 等				test. In additi <mark>on, provide</mark>		
, sa 182.	**************************************			m, of where the shackle		
	N/A	(6) Plug in the ter	pulling test- if the se sting procedure, pro	elf tapping screw was no vide the depth to which t	t inserted at least 5/4/ the self tapping screw	was inserted
				serted at least 3/4-inch.	2	
	N/A	(7) Plug	torque test			
•						
	X			provide measurements a arms safety device was a		neasurements and
	X	(9) Drop	test			
-		. ,			υ	

Page 3

	COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD429 FD 033 (Rev. 10-01)	Page 4
	Firearms Safety Device Standards The tested firearms safety device meets the standards in Regulation Section 977.44, Division 1, Title 11, California Code of Regulations. (a) The firearms safety device is of a design that will not allow its removal or deactivat utilizing a key, combination, or other unique method as intended by the manufacturer	ion except by
	access only authorized users. (Please indicate locking system) (1) If a combination locking system, there are a minimum of 1,000 possible corconsisting of a minimum of three numbers, letters, or symbols per combination	
	(2) If a key locking system, the key locking system shall be unique to the manufirearms safety device(s)).	ifacturer's 83
	X (3) Other: Special "J" key (Male) (b) The firearms safety device renders the firearm inoperable (unable to fire) while the safety device is properly installed.	firearms
	(c)The firearms safety device functions by at least one of the following methods (please indicate methods): X (1) By blocking travel of the tragger striker, firing pin, or hammer.	e all applicable
	(2) By preventing the action or cylinder from closing. (3) By preventing the chamber(s) from accepting or holding a cartridge. (4) By preventing access to the firearm.	
	d) The firearms safety device is capable of repeated use. The tested device meets all of the above standards.	
. A 1645 18 18 18 18 18 18 18 18 18 18 18 18 18	I declare under penalty of perjury according to the laws of the State in which this report executed that all statements made in this report and Attachment A are true and complete.	
	Signature: Rupard Mouser	
	Name/Title (Printed): Richard W. Mouser, President	
	Date: 11/12/03	



CALIFORNIA DEPARTMENT OF JUSTICE FIREARMS SAFETY DEVICE COMPLIANCE TEST REPORT

FD 033 (Rev. 10-01)

The Certified Firearms Safety Device Laboratory identified below has completed testing required by Penal Code Sections 12088 and Regulation Section 977.45, Chapter 12.6, Division 1, Title 11, California Code of Regulations is submitting this Compliance Test Report as required by Regulation Section 977.46, Chapter 12.6, Division 1, Title 11, California Code of Regulations. The reference number/identifier should refer specifically to the testing of the named firearms safety device model, not to the laboratory in general. The number /identifier must be noted in the space provided on each page of this Report.

Laboratory Information

Certified Firearms Safety Device Laboratory Address: 7447 W. 33rd St. N. Wichita, KS 67205 Name and Telephone Number of the DOF Certified Laboratory staff person to be contacted regarding this report: Richard W. Mouser, 316-332-6000 Pate of Test: 1142/2003: Time of Test: 0800-1145 Location(s) for Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure: Marlin Jiranek; Remington Representative	Laboratory P	Reference Number/Identifier FSD42	28 Date Submitted	1. 1/12/2003
Name and Telephone Number of the DOI Certified Laboratory staff person to be contacted regarding this report: Richard W. Mouser, 316-332-1600 Date of Pest: 11/42/2003 Time of Test: 0800-1145 Location(s) of Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:	Certified Fire	earms Safety Device Laboratory	United States Test Laboratory	
Name and Telephone Number of the DOF Certified Laboratory staff person to be contacted regarding this report: Richard W, Mouser, 316-332-1600 Date of Test: 11/12/2003. Time of Test: 0800-1145 Location(s) of Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:	Address:	7447 W. 33rd St. N.		
this report: Richard W. Mouser, 316-832-1600 Date of Test: 11/12/2003 Time of Test: 0800-1145 Location(s) of Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:		Wichita, KS 67205		
Date of Test: 11/12/2003: Time of Test: 0800-1145 Location(shof Test, including any off-site locations: USTL Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:	this report:		Laboratory staff person to be contacted	d regarding
Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:			Time of Test	t: 080 <u>0-1145</u>
Name(s) and Title(s) of laboratory staff who conducted and/or performed the required testing: Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:	Location(s)x	of Test, including any off-site locations:	USTL	
Richard Mouser; President Branden Arnold; Lab Technician Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:				
Name(s) and business affiliations of all persons who have witnessed any part of the testing procedure:	Richard Mou	ser; President	ted and/or performed the required testi	ing:
procedure:	Branden Arn	old; Lab Technician		
Marlin Jiranek; Remington Representative	• • •	business affiliations of all persons who	have witnessed any part of the testing	3
	Marlin Jirane	k; Remington Representative		

Firearms	Safety Device	Type (check one): Extern	DEVICE MODEL INFORMATION: nal: X Internal: Integral:
Make:	Remington	1	
Model:	870 Expres	ss Plastic Two-Dot ISS	Trigger Guard
Constru	ction Materia	l(s) (e.g., steel, alloy, et	tc.): Trigger Guard: Synthetic; Trigger: Steel
Lock Bo	lt: Steel		
Tested (on which firea	arm(s)	
	Type:	Handgun: Revolver	Pisto
		Longgun: Shotgun	X Rifle
		Other:	
		22.0	
Firearms	Make(s) and I	Model(s): Remingt	ton, 870 Express
	22-65. (2) 		y.
Caliber(s): 12 gaug	e Barrel Le	ength(s): 28.0"
	A.C		
		PRIMED	CASE INFORMATION
Primed (Case Used:	Manufacturer:	Fiocchi

		FIREA	ARMS SAFETY DEVICE MAN	IUFACTURER OR	DEALER INFORMATION
F	Firearms	Safety D	Pevice Submitted by: Remir	ngton	
A	Address:	315 W.	Ring Rd., Elizabethtown, KY	42701	
(Country:	USA		<u>-</u>	
(Contact I	Person:	Marlin Jiranek		Phone Number: 270-769-7645
			TES	T RESULTS	83
			safety devices have passed the	he test as defined	in Regulations Section 977.45
			ision 1, Title 11, California Co vice passed a specific test. If		With a check mark, indicate that the
· '	ii Caiiii S	saicty ac	vioe passed a specific test. If	a test was nearpp	Will Wash
_	X	_(1) Pick	ting or manipulation test		
-	X	_(2) Forc	ced removal inspection		
_	N/A	_(3) Tens		ş*	
		(4) Shoo			and a description
	N/A		ckie or cable cutting test. In a ements and a diagram, of wh		easurements and a description, or nd/or cable was attacked
	Ñ/A		pulling test- If the self tappin	g screw was not in	nserted at least 3/4-inch as described
			esting procedure, provide the plain why it was not inserted a		self tapping screw was inserted
	N/A	_(7) Plug	torque test		
_	X		ring test- In addition, provide ram, of where the firearms safe		d a description, or measurements and acked.
_	X	_(9) Drop	o test		

	COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD428	Page 4
	FD 033 (Rev. 10-01)	
	Firearms Safety Device Standards The tested firearms safety device meets the standards in Regulation Section Division 1, Title 11, California Code of Regulations.	n 977.44, Chapter 12.6,
	(a) The firearms safety device is of a design that will not allow its removal or utilizing a key, combination, or other unique method as intended by the man access only authorized users. (Please indicate locking system)	
	(1) If a combination locking system, there are a minimum of 1,000 po- consisting of a minimum of three numbers, letters, or symbols per co	5.6
	(2) If a key locking system, the key locking system shall be unique to firearms safety device(s)).	the manufacturer's' 83
	X (3) Other: Special "J" key (Male)	
	(b) The firearms safety device renders the firearm inoperable (unable to fire) safety device is properly installed.	while the firearms
	(c)The firearms safety device functions by at least one of the fellowing methods (plemethods): X (1) By blocking travel of the trigger, striker, firing pin, or hammer.	ase indicate all applicable
	(2) By preventing the action or cylinder from closing. (3) By preventing the chamber(s) from accepting or holding a cartridge	
. išatlėta	(4) By preventing access to the firearm.	•
	(d) The fire rms safety device is capable of repeated use.	
#86 00 00 00 00 00 00 00 00 00 00 00 00 00	The tested device meets all of the above standards.	
* #+######	I declare under penalty of perjury according to the laws of the State in which executed that all statements made in this report and Attachment A are true a	
	Signature: Surpaid Mouser	
	Name/Title (Printed): Richard W. Mouser, President	
	Date: 11/12/03	

Date Received: 11/11/03

Record No:

FSD428

Via: Returned Via: UPS

UPS

Test Date: Customer: 11/12/2003 Remington

<u>Sample</u>

Sample Dimensions

Manufacturer: Remington Lock Type:

Integral

Body Length:

N/A in.

Key Type:

Body Width: Body Depth: N/A in. N/A in.

Special "J" (Male)

N/A in.

Model:

870 Express Plastic Two-Dot

Shackle/Cable Dia.:

N/A in.

ISS Trigger Guard

Shackle/Cable Length:

N/A lbs.

Test Spec.:

Firearm Used: Remington, 870 Exp. 12 ga., 28" bbl. Weight: California Title 11, Div. 1, Ch. 12.6 Sample Description:

Trigger Guard: Synthetic;

Trigger: Steel; Lock Bolt: Steel.

6 % -i.

(1) Picking or Manipulating Test

Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Server.

Combination locks shall resist manual manipulation for two minutes

		Contract to dita stati recist manage manipales	011 101 1110 11111111111111111111111111	1967 AL	
Sample No.	Test Condition		Tool	Time	Resultse 3 (Pass/Fail)
	X	Firearm safety device tested with firearm.	jumbo paper clip	2	ESTERON TO SERVICE
1		Firearm safety device tested without firearm.	#1 paper clip		Pass
	İ		1.4 mid screwdriver	2 "	Pass

Remarks/Notes:

Test could not be conducted due to minimal keyway dimension.

(2) Forced Removal Inspection

Inspect the firearm and firearms safety device to determine the the treams safety device is of such a design that it may not be disabled or removed from the firearm through the partial destruction of the firearm with common household tools.

		1355 North the made at an eager and granted department of the meant with continuous today.	
	Sample No	Description/Explanation	Results (Pass/Fail)
	100 mg/s	rearm safety device does not appear that it may be disabled through the partial	
_	, 能 容: - 203 - 203	destruction of the firearm with common household tools.	1
j.	編 1	Firearm safety device appears that it may be disabled through the partial destruction	Pass

of the firearm with common household tools

(3) Tensile Test

This test is designed to test the strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

out interfering or giving support to either the mating locking components of the firearms safety device

Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A
N/A Pemarks/Notes:	Firearm safety device tested without firearm.		L

<u>lemarks/Notes:</u>

Record No.:	FSD428

(4) Shock Tes	i
---------------	---

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool.

Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool. Failure also occurs if following the shock test, subsequent manipulation with an 8-10-inch long screwdriver with a 1/4 to 5/8-inch flathead end for fifteen seconds allows the tester to discharge a primed case.

Sample No.	Test Condition		Tool Drops		Results (Pass/Fail)
	Х	Firearm safety device tested with firearm.	blade	5	Pass
1		Firearm safety device tested without firearm.	rod	5	Pass

Remarks/Notes:

Manipulation conducted with a 1/4" screwdriver at keyway for 15 sec. subsequent to Shock Test (Pass).

	(5) Shackle or Cable Cutting Test			
This test is designed to determine the firearms safety device resistance to cutting forces of 1,000 pounds force for solid metal shackles or with hand forces of 100 pounds force for cables.				
Sample No.	Test Condition Max. Load (lbfs) Time (s	Results (Pass/Fail)		
	Firearm safety device tested with firearm.			
N/A	Firearm safety device tested without firearm.	N/A		

Remarks/Notes:

(6) Plug Pulling Test

in is least states and to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches

deep. Apply a required tension of 225 pounds force axially between the case and installed screw.

Failur occurs if the firearms safety device can be opened by fifteen seconds of manipulation with an 8-10-inch long screwdriver with the largest flat blade (not to exceen 5/8") that wil fit into the keyway at the conclusion of the test.

Sample No.		Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
	Х	Firearm safety device tested with firearm.		
2		Firearm safety device tested without firearm.	-	*

Remarks/Notes:

* Test could not be competed, due to hardened keyway.

Page 2 of 3

	(7) Plug Torque Test designed to test the ability of a firearms safety device's keyway, if so er e largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, applied to the plug.	quipped, to withstand torque pressu	
Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.		
2	Firearm safety device tested without firearm.	-	*
emarks/Notes: Fest could not b	e completed, due to minimal keyway dimension.		

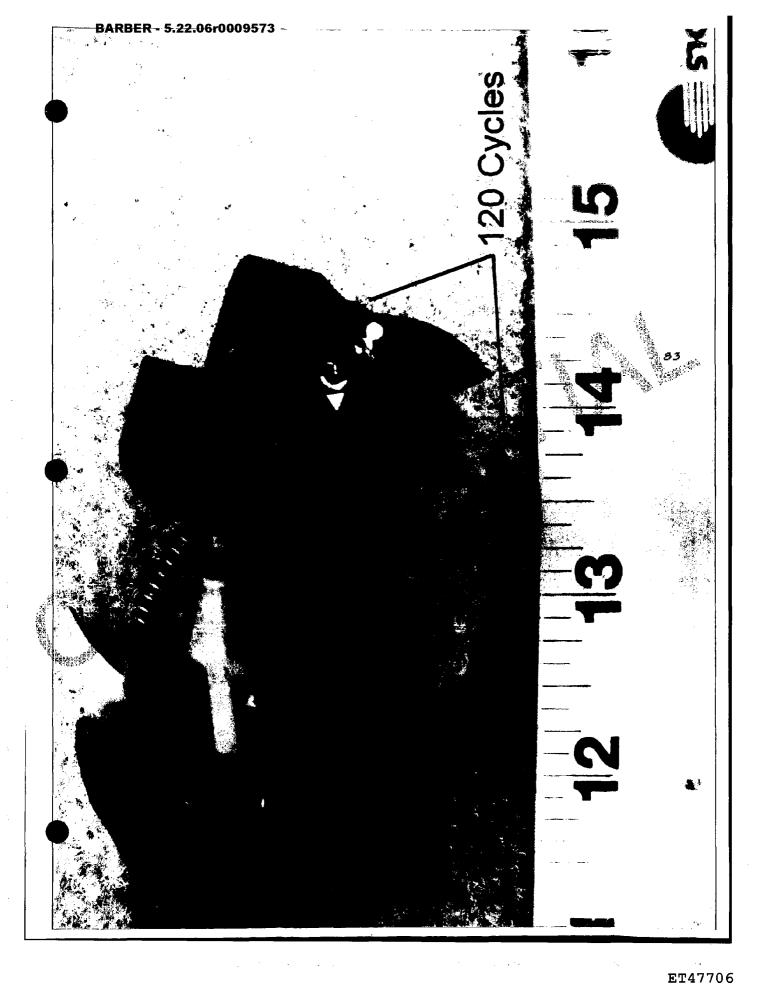
Sample No.	Test Condition	े Cycles	Re s ults (Pass/Fail)
	X Firearm safety device tested with firearm.	80 V.	1 mar
2	Firearm safety device tested without irearm.	120	Pass
Remarks/Notes: Sample tested be	ween locking bolt and trigger.		
anipulation cond	ucted by hand at locking bolt and trigger subsequent to Sawi	ng Test for 15 sec. (Pass)	

(8) Sawing Test

L	Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail
þ		(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass
		(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	(C) If the firearm is a handgun, on the grip with the barrel vertical.	N/A
5	##/ 	(D) On the muzzle with the barrel vertical.	Pass
		(E) On either side with the barrel horizontal.	Pass
		(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass

This test was performed in accordance with the	Arnold/Mouser		
specification requirements and the results properly	United States Test Laboratory	Phone	316-832-1600
reflect the performance of the listed sample.	7447 W. 33rd St. N., Wichita, KS	6720 Fax	316-832-1602

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UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received: 11/11/03 **UPS**

Record No:

FSD429

Via: Returned Via: UPS Test Date: Customer: 11/12/2003 Remington

Sample

Sample Dimensions

Manufacturer: Remington

Body Length:

N/A in.

Lock Type:

Integral

Body Width:

N/A in.

Key Type:

Special "J" (Male)

Body Depth:

N/A in.

Model:

870 Express Aluminum Two-Dot

Shackle/Cable Dia.:

N/A in.

ISS Trigger Guard

Shackle/Cable Length:

N/A in.

Firearm Used: Remington, 870 Exp. 12 ga., 28" bbl. Weight:

N/A lbs.

Test Spec.:

California Title 11, Div. 1, Ch. 12.6 Sample Description:

Guard: Alum.; Trigger: Steel;

Locking Bolt: Steel.

	(1) Picking or Manipulatin			۵ <u>.</u>
Cylinders in the fire	earms safety device shall resist picking with use of paper clips (jumbo in the keyway for two minutes ea Combination locks shall resist manual manipulati	ch. ion for two minutes), and small s	crewdrivers that fi
Sample No.	Test Condition			Results
1	X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo papenclip #1 paper clip	2 2 2	Pass
		1.4 mm screwdriver	2	Pass

Remarks/Notes:

Test could not be conducted due to minimal keyway dimension

Sample No	Description/Explanation	Results (Pass/Fa
No.	Finearm safety device does not appear that it may be disabled through the partial destruction of the firearm with common household tools.	
1	Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass
Remarks/Not	2.	

Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	•	N/A

Page 1 of 3

1530 mil

<u> </u>	5.22.06r0009575	Record No.:	ECD400	
		Record No.:	FSD429	-
		·····		
This test is design	(4) Shock Test ned to test the firearms safety device and locking mechanism ability to	o withstand shock Usin	ng the shock imp	act fixture, d
the firearms s	2.2 pound weight from a distance of one 39.4 inches + 0.4 safety device body aligned to impinge and penetrate the locking keywood Additionally, using the shock impact fixture, drop a 2.2 polinches five times to the top of the firearms safety device body using a quent manipulation with an 8-10-inch long screwdriver with a 1/4 to 5/	inches five times to the ay or combination lock u and weight from a distar a chucked steel rod tool.	top of using a chucked lace of Failure also occ	blade-type to
Sample No.	discharge a primed case. Test Condition	Tool	Drops	Resul
_ 	X Firearm safety device tested with firearm.	blade	5	(Pass/F Pass
1	Firearm safety device tested without firearm.	rod	5	Pass
Remarks/Notes				
	(5) Shackle or Cable Cutti	ng Test	B. S	
	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for	es of 1,000 pounds forc cables.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
This test is design	ned to determine the firearms safety device resistance to cutting forc hand forces of 100 pounds force for Test Condition	es of 1,000 pounds forc	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Result
Sample No.	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for Test Condition Firearm safety device tested with firearm.	es of 1,000 pounds forc cables.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Resul (Pass/F
Sample No.	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	es of 1,000 pounds forc cables.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Resul (Pass/F
Sample No.	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	es of 1,000 pounds forc cables.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	shackles or Result (Pass/F N/A
Sample No.	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	es of 1,000 pounds forc cables.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Result (Pass/F
Sample No. N/A Remarks/Notes	ned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	es of 1,000 pounds forc cables. Max: Load (lbf.)	Time (s.)	Result (Pass/F N/A
Sample No. N/A Remarks/Notes This less is designed.	Test Condition Firearm safety device tested with firearm. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm.	es of 1,000 pounds force cables. Max: Load (lbf.) Max: Load (lbf.) bodge the plug from the size AB12 at least 0.75 yeen the case and instal	cylinder. Drill the inches iled screw.	Result (Pass/F N/A
Sample No. N/A Remarks/Notes This less is designed.	Test Condition Firearm safety device tested with firearm. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm.	es of 1,000 pounds force cables. Max: Load (lbf.) Max: Load (lbf.) bodge the plug from the faize AB12 at least 0.75 yeen the case and instaltion with an 8-10-inch local case.	cylinder. Drill the inches iled screw.	Result (Pass/F N/A
Sample No. N/A Remarks/Notes This less is designed.	Test Condition Firearm safety device tested with firearm. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm.	es of 1,000 pounds force cables. Max: Load (lbf.) Max: Load (lbf.) bodge the plug from the faize AB12 at least 0.75 yeen the case and instaltion with an 8-10-inch local case.	cylinder. Drill the inches led screw.	Result (Pass/F N/A
Sample No. N/A Remarks/Notes This test is decident.	Test Condition Firearm safety device tested with firearm. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Go Plug Pulling Tester device tested without firearm.	es of 1,000 pounds force cables. Max: Load (lbf.) Max: Load (lbf.) Load the plug from the size AB12 at least 0.75 ween the case and instaltion with an 8-10-inch lothe conclusion of the test	cylinder. Drill the inches led screw.	Result (Pass/F N/A

Remarks/Notes:

* Test could not be competed, due to hardened keyway.

Page 2 of 3

Record No.: FSD429

	Torqu		

This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Insert a screwdriver with the largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds force-inches can be applied to the plug.

Sample No.		Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
	х	Firearm safety device tested with firearm.		
2	L.,_	Firearm safety device tested without firearm.	-	*

Remarks/Notes:

(8) Sawing Test

The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constant vertical down

force of ten pounds. The test shall consist of 120 cycles, with no time limit, by hand

At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device for fifteen seconds by hand in a stempling disable the firearms safety device.

Sample No.		Test Condition	anie.	il.	Cycles		Results (Pass/Fail)
	X Firearn	safety device tested	with firearm.			`\$0.5	
2	Firearm	afety device tested w	rithout firearm.		120		Pass
Remarks/Notes:		- (16 50 15)	100 mar 200	10 Table 1			

Remarks/Notes:

Sample tested between locking bolt and trigger.

subsequent to Sawing Test for 15 sec. (Pass). Manipulation conducted by hand at locking balt and trigger

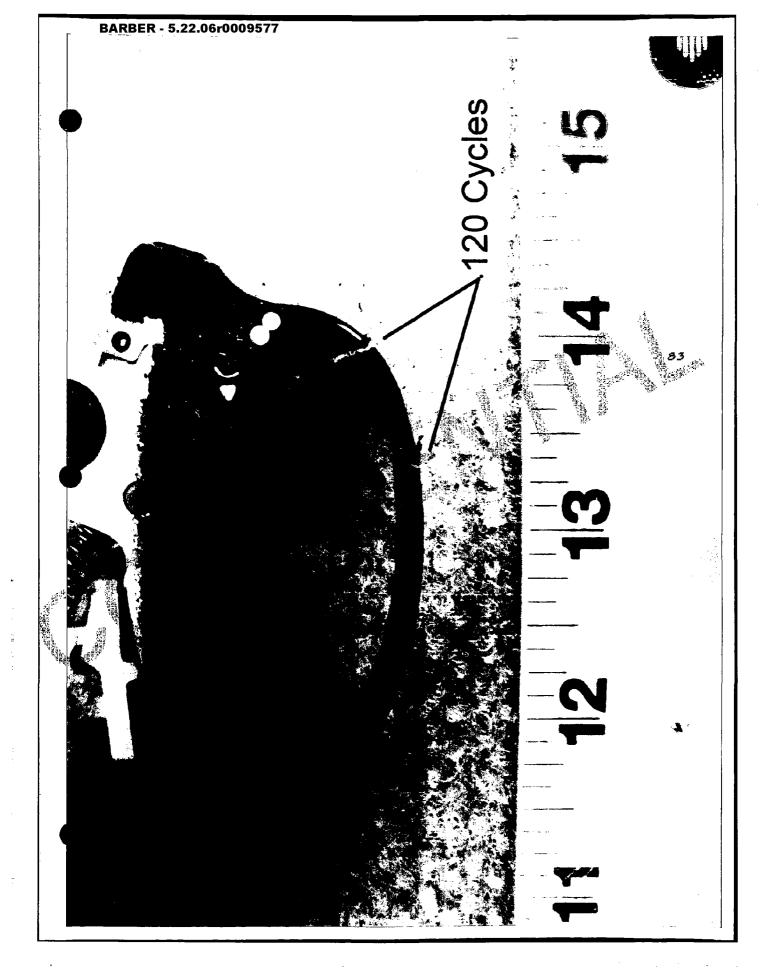
<u> </u>	Drop Test	
Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)
	(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	Pass
1 70%	(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	Pass
3	(C) If the firearm is a handgun, on the grip with the barrel vertical.	N/A
\$ P	(D) On the muzzle with the barrel vertical.	Pass
	(E) On either side with the barrel horizontal.	Pass
	(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	Pass

Remarks/Notes:

	This test was performed in accordance with the	Arnold/Mouser		
1	specification requirements and the results properly	United States Test Laboratory	Phone	316-832-1600
,	reflect the performance of the listed sample.	7447 W. 33rd St. N., Wichita, KS	6720 Fax	316-832-1602

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Test could not be completed, due to minimal keyway dimension.



UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date	Received:	11/11/03
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Via: **UPS** Returned Via: UPS Record No:

FSD430

Test Date: Customer: 11/12/2003 Remington

Sample

Manufacturer: Remington

Sample Dimensions

Body Length:

N/A in.

Lock Type: Key Type:

Integral Special "J" (Male) Body Width:

N/A in.

Model:

597

Body Depth:

N/A in.

Shackle/Cable Dia.: Shackle/Cable Length:

Sample Description:

N/A in. N/A in.

Serial/Lot:

N/A

N/A lbs.

Test Spec.:

Firearm Used: Remington, 597, 22 LR, 20" bbl. California Title 11, Div. 1, Ch. 12.6

Weight:

Guard: Synthetic; Trigger: Steel;

Locking Bolt: Steel.

(1) Picking or Manipulating Test Cylinders in the firearms safety device shall resist picking with use of paper clips (jumbo size), paper clips (#1 size), and small screwdrigers that fit in the keyway for two minutes each. Combination locks shall resist manual manipulation for two minutes. Results Time Sample No. **Test Condition** Tool (Pass/Fail) (min.) 2 2 2 Firearm safety device tested with firearm. jumbo paper clip Firearm safety device tested without firearm. ## paper clip 1 **Pass** Pass .4 mm screwdriver

Remarks/Notes:

Test could not be conducted due to minimal keyway dimension.

	(2) Forced Removal Inspection	
	Inspect the firearm and firearms safety device to determine the firearms safety device is of such a design that it may not be dis	abled or removed
	Sample No. Description/Explanation	Results (Pass/Fail)
.2012 (1985) 12012 (1985)	### ##################################	
	Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools.	Pass
	Remarks/Notes:	

Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail
	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

Page 1 of 3

Record No.: FSD430

(4) Shoc	k Tesi

This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of

the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool.

Additionally, using the shock impact fixture, drop a 2.2 pound weight from a distance of

39.4 inches + 0.4 inches five times to the top of the firearms safety device body using a chucked steel rod tool. Failure also occurs if following the shock test, subsequent manipulation with an 8-10-inch long screwdriver with a 1/4 to 5/8-inch flathead end for fifteen seconds allows the tester to discharge a primed case.

Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	blade	5	Pass
1	Firearm safety device tested without firearm.	rod	5	Pass

Remarks/Notes:

Manipulation conducted with a 1/4" screwdriver at keyway for 15 sec. subsequent to Shock Test (Pass).

8.

(5) Shackle or Cable Cutting Test

This test is designed to determine the firearms safety device resistance to cutting forces of 1,000 pounds force for solid metal shackles or with hand forces of 100 pounds force for cables.

Sample No.	Test Condition Max Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.		
N/A	Firearm safety device tested without firearm.	-	N/A

Remarks/Notes:

(6) Plug Pulling Test

This lest is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder. Drill the keyway with a number 20 diameter drill bit and insert a self tapping screw of size AB12 at least 0.75 inches

deep. Apply a required tension of 225 pounds force axially between the case and installed screw.

Failur occurs if the firearms safety device can be opened by fifteen seconds of manipulation with an 8-10-inch long screwdriver with the largest flat blade (not to exceen 5/8") that wil fit into the keyway at the conclusion of the test.

	blade (not to exceed 5.0) that will not the keyway at the		Results
Sample No.	Test Condition	Max. Load (lbf.)	(Pass/Fail)
	X Firearm safety device tested with firearm.		
3	Firearm safety device tested without firearm.	<u>-</u>	*

Remarks/Notes:

* Test could not be competed, due to hardened keyway.

Page 2 of 3

Record No.: FSD430

(7) Plug Torque Test

This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Insert a screwdriver with the largest flat blade (not to exceed 5/8 inch) that will fit into the keyway, so that a torque load of 89 pounds force-inches can be applied to the plug.

Sample No.	Test Condition	Max. Load (lbs/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.		
3	Firearm safety device tested without firearm.	-	*

Remarks/Notes:

Test could not be completed, due to minimal keyway dimension.

(8) Sawing Test

The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constant vertical downwards force of ten pounds. The test shall consist of 120 cycles, with no time limit, by find.

At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device for fifteen seconds by hand in an extempt to disable the firearms safety device.

Sample No.		Test Condition	(3) 33	Cycles		Results (Pass/Fail)
	X	Firearm safety device tested with firearm.	KMR 1 (8119.) 1915. –		- 9860	
3		Firearm safety device tested without firearm.		120		Fail

Remarks/Notes:

Sample tested between locking bolt and trigger.

Manipulation conducted by hand at locking balt and trigger subsequent to Sawing Test for 15 sec. (Fail).

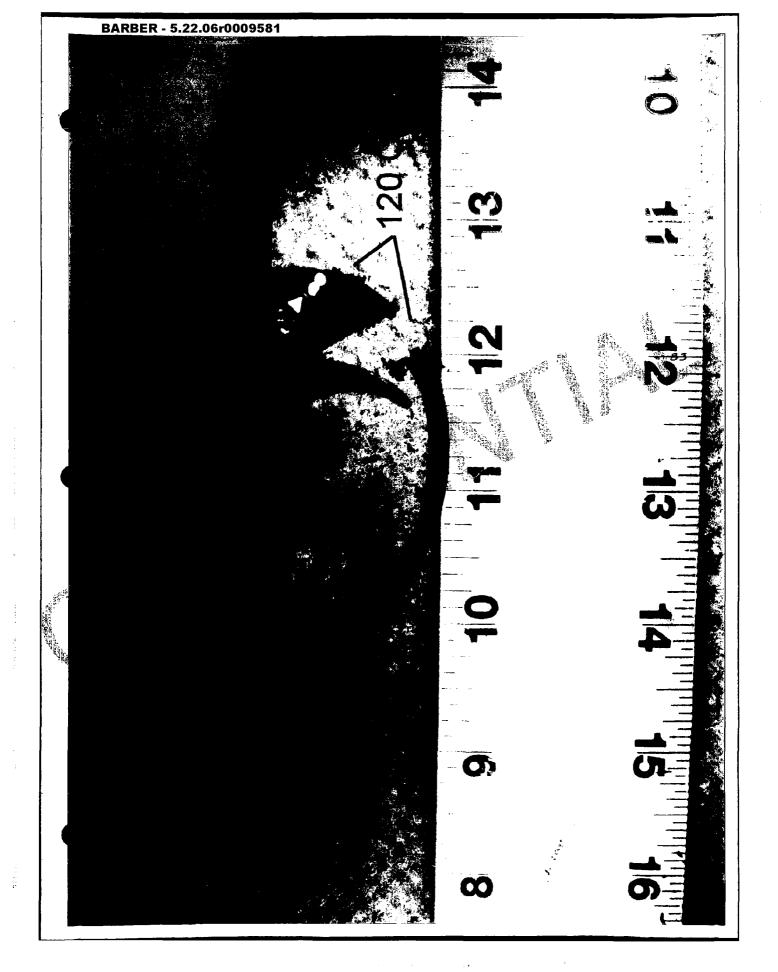
		Drop Test	
a Canal Nati	Sample No.	Sections (C) thru (F) do not apply to lock-box type devices.	Results (Pass/Fail)
		(A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.	N/A
		(B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.	N/A
200 mg/m	N/A	(C) If the firearm is a handgun, on the grip with the barrel vertical.	N/A
CONTRACTOR	(表) (2)	(D) On the muzzle with the barrel vertical.	N/A
		(E) On either side with the barrel horizontal.	N/A
i		(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.	N/A

Remarks/Notes:

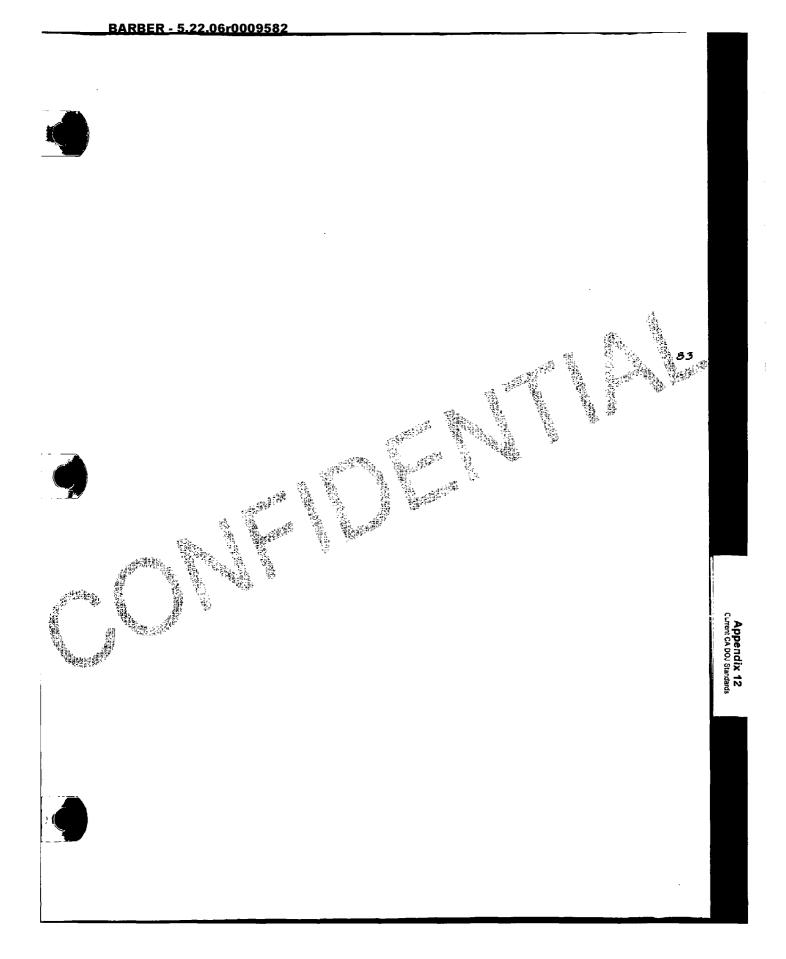
Drop Test not conducted, due to failure during Sawing Test.

	This test was performed in accordance with the	Arnold/Mouser		
)	specification requirements and the results properly	United States Test Laboratory	Phone	316-832-1600
,	reflect the performance of the listed sample.	7447 W. 33rd St. N., Wichita, KS 672	0 Fax	316-832-1602

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ET47714



DEPARTMENT OF JUSTICE FIREARMS DIVISION FIREARMS SAFETY DEVICE TESTING AND GUN SAFE STANDARDS

Department of Justice P.O. Box 160487 Sacramento, CA 95816-0487

NOTICE OF APPROVAL OF REGULATORY ACTION

The Department recently proposed new language that would amend the Firearms Safety Device Testing and Gun Safe Standards. These amendments were approved and now have the force of law. Therefore, effective immediately the attached regulations shall supercede all other versions. All firearms safety device testing and approval processes shall be conducted under the standards adopted into these newly revised regulations.

An electronic version of these regulations can also be found on the Internet under the Department's Current and Proposed Regulations section at http://www.caag.state.ca.us/firearms/regs/index.html.

Please direct any questions that you may have regarding safety device testing or gun safe standards to Steven Teeters at (916) 263-0849

ET47716

CHAPTER 12.6

Department of Justice Regulations For Certified Firearms Safety Device Laboratories, Firearms Safety Device Standards and Testing, and Standards For Gun Safes

Article 1- General: Title; Scope; Extensions for Compliance

§ 977.10 - Title and Scope

- (a) This chapter shall be known as "Department of Justice Regulations For Certified Firearms Safety Device Laboratories, Firearms Safety Device Standards and Testing, and Standards For Gun Safes," may be cited as such, and is herein referred to as "these regulations."
- (b) The provisions of these regulations implement, interpret, and make specific the laboratory certification and firearms safety device testing programs mandated by California Penal Code sections 12087 through 12088.9, which became effective January 1, 2000. These regulations also establish procedures to create and maintain both a roster of FSD laboratories and a roster of certified firearms safety devices. These regulations additionally establish standards for gun safes and Firearms Safety Device (FSD) standards and testing requirements. These regulations also apply to 23 any person, firm, and/or corporation that wishes to become certified as a Certified FSD Laboratory.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.15 - Extensions for Compliance

If a Certified Firearms Safety Device Laboratory provides the Department of Justice (DOJ) with written proof that through no fault of its own it is not able to meet a deadline provided for in these regulations, the DOJ may grant a temporary extension of time to meet that deadline. Any such extension shall be in writing and shall designate a specific time period for the extension.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

Article 2 - Definition of Key Terms

§ 977.20 - Definition of Key Terms

- (a) "ATF" means the United states Department of Justice, Bureau of Alcohol, Tobacco, Firearms and Explosives.
- (b) "Certified Firearms Safety Device Laboratory" or "Certified FSD Laboratory" means a laboratory that has been granted FSD Laboratory Certification by the DOJ.
- (c) "COE" means a Certificate of Eligibility issued by the DOJ pursuant to subdivision (a)(4) of Penal Code section 12071 and the regulations issued thereunder after a check of state and federal files has determined that at the time the check was performed, and based upon available information, the applicant was not a person who was prohibited from possessing firearms pursuant to state and federal laws.

1

- (d) "Common household tools" means: screwdrivers (8-10 inches in length, flathead or Phillips, flathead sizes up to 5/8 inches), pipe wrenches (9½-10 inches in length), vice grip pliers (9½-10 inches in length), other pliers (9½-10-inch arch joint, 6-6½-inch slip joint, 6-6½-inch long nose), hacksaws (12-inch, standard carbon steel blade), crowbars (16 inch), electric/cordless drills (1/3 horsepower corded/9.6 volt cordless), hammers (16 ounce), chisels (1/4-inch to 1-inch blade width wood chisels), and crescent wrenches (10 inch).
- (e) "Completed Application" means: a completed Application for Firearms Safety Device Laboratory Certification, (DOJ Form FD 031), including application copies of any applicable licenses and/or certificates; any additional sheets of paper used to provide full and complete answers to questions on the application; and copies of the laboratory's written procedures relating to security and prohibited persons.
- (f) "Corporation" means any entity organized under California Corporations Code section 102(a) or similar statute if not a California corporation.
- (g) "Day" means a calendar day unless otherwise specified in these regulations.
- (h) "Disabled" means defeating the Firearms Safety Device thereby rendering the firearm capable of firing (expelling a projectile by the force of an explosion or other form of combustion).
- (i) "DOJ" means the California Department of Justice.
- (j) "DOJ-Approved Safety Device" means a firearms safety device that has been tested by a certified FSD laboratory, has been determined to meet the standards for firearms safety devices, and may be sold in California pursuant to Penal Code section 12088.2.
- (k) "Firearms manufacturer" means either: A licensed manufacturer of domestically produced firearms or, if one exasts, a legal successor-lif-interest or other person with the consent of the manufacturer; and/or a federally licensed importer of foreign manufactured firearms.
- "Firearms safety device means a device that locks and is designed to prevent children and unauthorized users from firing a firearm. The device may be installed on a firearm, be incorporated into the design of a firearm, or prevent access to the firearm.
- (m) "Firearms Safety Device Compliance Test Report" means a report completed by a Certified FSD Laboratory after a firearms safety device has met the requirements of Penal Code section 12088.2 and these regulations.
- (n) "Firearms safety device manufacturer or dealer" means either: a manufacturer of firearms safety devices or a dealer of firearms safety devices.
- (o) "Firing Chamber" means the chamber that is lined up with the firing pin or striker.
- (p) "Firm" means a business unit, enterprise, or partnership of two or more persons, that is not recognized as a legal person distinct from the members comprising the entity.
- (q) "FSD Laboratory Certification" means the DOJ certificate issued as evidence of compliance with the DOJ laboratory certification requirements as set forth in these regulations.

BARBER - 5.22.06r0009586

- (r) "Keyway" means the opening in a locked cylinder that is shaped to accept a key bit or blade of a proper configuration.
- (s) "Local License" means any regulatory and/or business license issued by a city, county, or other local government agency.
- (t) "Model" means the manufacturer's designation which uniquely identifies a specific design of firearms safety device.
- (u) "Plug" means the part of a cylinder which contains the keyway, with tumbler chambers usually corresponding to those within the cylinder shell.
- (v) "Properly installed" means the firearms safety device is installed according to the instructions provided by the firearms safety device manufacturer or dealer.
- (w) "Reasonable Access" means that areas and/or items to be inspected by an authorized DOJ employee are free from physical obstruction and/or other impediments that would make access difficult and/or unsafe.
- (x) "Roster of Approved Firearms Safety Devices" means a DOJ list of all DOJ-Approved Safety
 Devices. The roster shall list, for each DOJ-Approved Firearms Safety Device, the manufacturer,
 model number, model name, and other information deemed necessary by the DOJ to facilitate
 identifying that firearms safety device.
- (y) "Lock Box" means a firearms safety device that fully contains and encloses the firearm(s).

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

Article 3 Certified FSD Laboratories

8.977.30 Who Must be a Certified FSD Laboratory

- a) Any laboratory wishing to participate in the testing program described in these regulations must first become a Certified FSD Laboratory.
- (b) Any proposed change in the ownership of five percent or more of a Certified FSD laboratory from that reported on the initial application shall require the submission of an Application for Firearms Safety Device Laboratory Certification (DOJ Form FD 031), by the proposed ownership entity or owners.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.31 - Application for Firearms Safety Device Laboratory Certification

The DOJ shall accept completed applications from laboratories seeking FSD Laboratory Certification. Application for certification shall be made on an Application for Firearms Safety Device Laboratory Certification (DOJ Form FD 031), which shall include the following information:

- (a) Laboratory information: name of applicant laboratory; physical and mailing addresses; telephone and fax numbers; local licensing authority, business license number, and expiration date; the name of the local law enforcement agency with jurisdiction over the laboratory; state corporation/partnership number and expiration date; federal firearms license number, type, and expiration date (if licensed); business hours; e-mail address (if applicable); and copies of licenses and/or certificates identified on the application.
- (b) COE holder information: name, title, COE number, and COE expiration date of any owner, chief executive officer, or person who possesses or has applied for a COE and who is authorized to sign Compliance Test Reports.
- (c) Ownership information: ownership structure; the name, title/relation to laboratory/percentage owned and/or controlled, address, telephone and fax numbers, state corporation/partnership number and expiration date, and local business license number and expiration date of any owner that is not a natural person; and the name, title/relation to laboratory/percentage owned and/or controlled, address, and telephone number of each owner, partner, officer, director and any person who owns and/or exercises control of five percent or more of outstanding common stock; and if a corporation or partnership either original certified copies of the articles of incorporation or a current roster of general and limited partners.
- (d) Facility management and testing supervision information: name and title of the manager or director of the laboratory and/or unit of the laboratory that will conduct firearms safety device tests, the person(s) supervising firearms safety device tests (if different from the manager or director), and persons participating and/or performing firearms safety device tests (if different); a copy of the laboratory's security procedures; the name, address, and telephone number of any 24-hour security service or monitored alarm system that is employed by the laboratory, and a copy of the contract for services; and a copy of the procedures for ensuring that persons prohibited from possessing firearms will not have access to firearms, and a description of the method to be used to identify any such persons.
- (e) A signed certification regarding: possession of the required equipment (whether the laboratory will obtain the required equipment at the time the application is submitted or at a later date); the maintenance and calibration of that equipment; compliance with safety, design, operation, and licensing and approval requirements; the signature of the authorized representative; and the county, state and date of signature.
- (f) Off-site location information, if applicable: name of the owner; telephone number; physical address; and the testing to be performed and/or equipment to be used at the off-site location (if more than one off-site location is desired, the applicant must also complete a Request to Utilize an Additional Off-site Location (DOJ Form FD 032).
- (g) Authorized representative information: name and title of the person who has the legal authority to sign the application and attest to the required matters on behalf of the applicant laboratory, signed certification of the authorized representative, the county, state, and date of signature, and statements of certification that the laboratory agrees to give complete and truthful answers to questions that are pertinent to the laboratory's ability to perform firearms safety device tests and to comply with all applicable federal, state, and/or local laws and/or regulations that relate to laboratory certification or firearms safety device testing.

- (h) A signed certification stating that the laboratory and/or owner is free from any conflicts of interest as defined by section 977.40 of these regulations; the signature of the authorized representative; and the county, state, and date of signature.
- (i) A signed certification ensuring: the notification to staff of laws relating to prohibitions against firearms possession, ensuring that prohibited persons do not have access to, come into contact with, and/or possess firearms; the laboratory obtaining and maintaining any required federal, state, and/or local licenses; and the laboratory complying with all applicable federal, state, and/or local laws and/or regulations; the signature of the authorized representative; and the county, state, and date of signature.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.32 - Pre-Certification Requirements

- (a) One or more of the owner(s), chief executive officer(s), or person(s) with primary responsibility for the operation of the laboratory shall obtain and maintain a valid COE as a condition of obtaining and maintaining certification.
- (b) Once a completed application has been received, the DOJ shall schedule an on-site inspection of the applicant laboratory. During this inspection the applicant laboratory shall demonstrate its possession of all necessary equipment and its ability to properly conduct all of the procedures and tests described in section 977.45 of these regulations.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference Sections 12088, 12088.2, Penal Code.

§ 977.33 - Grounds for Denial:

- (a) An initial application for firearms safety device laboratory certification shall be denied if the applicant laboratory.
 - (1) Makes false statements on the application.
 - (2) Fails to meet the security requirements identified in subsection (a) of section 977.41 of these regulations.
 - (3) Is wholly or partly owned by, a part of, financed by, or in any other way financially supported by any firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer. As used in this subsection, financial support does not apply to situations wherein an applicant laboratory provides testing services to a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer.
 - (4) Fails to demonstrate the ability to conduct the required testing as set forth in section 977.45 of these regulations in an impartial, technically sound manner. Failure includes not having and using the equipment required by said subsection.
 - (5) Fails to obtain the required COE(s).
 - (6) Fails to comply with any required local, state, and/or federal laws and/or licensing requirements relating to firearms safety device testing.

- (7) Has any present or planned contractual, organizational, employment or other financial involvement and/or relationship (spouse(s), children, sibling(s), parent(s), or in-law(s)) with any firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer. This would also apply to any employee(s) directly involved in firearms safety device testing, owner(s), shareholders(s), partners(s), officer(s), and/or director(s) of the applicant laboratory who has any such involvement or relationship.
- (8) Is currently or plans to be a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer. This would also apply to any employee(s) directly involved in firearms safety device testing, owner(s), shareholders(s), partner(s), officer(s), and/or director(s) of the applicant laboratory.
- (9) Has a present or planned direct, indirect, and/or beneficial interest aggregating \$1,000 or more in any entity that is a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer. This would also apply to any employee(s) directly involved in firearms safety device testing, owner(s), shareholders(s), partner(s), officer(s), and/or director(s) of the applicant laboratory.
- (b) If the DOJ denies certification, the DOJ shall provide a notice of denial to the applicant laboratory.

 The notice will specify all grounds on which the denial is based.
- (c) An applicant laboratory that has been served with a notice of denial may request a hearing. The written request must be received by the DOJ no later than 20 days from the date of service of the notice of denial. If a hearing is requested, it will be conducted in accordance with Chapter 5 (commencing with section 11500), Part 1. Division 3. Title 2 of the Government Code. Failure to make a written request for a hearing within the time specified above constitutes a waiver of the right to a hearing. If this occurs or if the applicant laboratory withdraws its appeal, the denial shall be final.

Authority cited: Sections 12088, 120882, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§977.34 Certification Period for Certified FSD Laboratories

the period of certification shall be two years from the date of issuance.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.35 - Processing Times

- (a) The following processing times shall apply to initial applications:
 - (1) Within 15 days from the date of receipt of an application, the DOJ will either inform the applicant in writing that the application is complete and accepted for processing, or return the application as deficient, and specify what information is required.
 - (2) Within 20 days from the date of receipt of a completed and accepted application, the DOJ will schedule an on-site inspection unless the time is waived by the applicant.
 - (3) Within 30 days from the date of receipt of a completed and accepted application the DOJ will conclude the processing of the application unless the time is waived by the applicant. This

includes: completing the pre-certification on-site inspection and making a determination regarding the approval or denial of the application.

(b) The DOJ's minimum, median, and maximum times for processing an initial application from the date of receipt of the completed application to a final decision are:

(1) Minimum time:

15 days.

(2) Median time:

20 days.

(3) Maximum time:

30 days.

- (c) The following processing times will apply to application renewal:
 - (1) Within 15 days from the date of receipt of an application for renewal, the DOJ will either inform the applicant in writing that the application is complete and accepted for processing for return the application as deficient, and specify what information is required.
 - (2) Within 20 days from the date of receipt of a completed and accepted application for renewal, the DOJ will schedule an on-site inspection unless the time is waived by the applicant.
 - (3) Within 30 days from the date of receipt of a completed application for renewal, the DOJ will conclude the processing of the application unless the time is waived by the applicant. This includes making a determination regarding the renewal of the application.
- (d) The DOJ's minimum, median, and maximum times for processing a completed application for renewal of certification from the date of receipt to a final decision are:
 - (1) Minimum time

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(2) Median time

20 days.

(3) Maximum time:

30 days.

Authority cited: Section 15376, Government Code; Sections 12088, 12088.2, Penal Code. Reference: Section 15376, Government Code; Sections 12088, 12088.2, Penal Code.

§ 977.36 - Appeal Process

- (a) If the DOJ fails to meet the time periods for concluding the processing of an application, the applicant may apply in writing for a full refund of all applicable application fees. The request must be received by the DOJ within 20 days from the date of service of the final decision granting or denying the application.
- (b) The DOJ shall respond within ten days from the date of receipt of a request for refund.
- (c) If the refund is denied by the DOJ, the applicant may directly appeal the denial in writing to the Attorney General. The appeal must be filed within 20 days from the date of service of the refund denial. The appeal shall set forth a concise statement of facts and a chronology of events regarding the application.

- (d) The appeal in subsection (c) of this section will promptly be reviewed, and a decision will be issued within 30 days from the completion of any investigation which the Attorney General deems appropriate. The appeal in subsection (c) of this section will be decided in the applicant's favor if the DOJ has exceeded its maximum time period for the issuance or denial of the FSD Laboratory Certification, and the DOJ has failed to establish good cause for exceeding this time period.
- (e) The DOJ will provide information regarding this appeal process on the Application for Firearms Safety Device Laboratory Certification (DOJ Form FD 031).

Authority cited: Section 15378, Government Code; Sections 12088, 12088.2, Penal Code. Reference: Section 15378, Government Code; Sections 12088, 12088.2, Penal Code.

Article 4 - Operational Requirements, Firearms Safety Device Standards, Gun Safe Standards, Proof of Purchase or Ownership of a Gun Safe, Affixation of Required Warning

§ 977.40 - Absence of Conflict of Interest

The Certified FSD Laboratory shall at all times ensure that:

- (a) It is not wholly or partly owned by, a part of, financed by, or in any other way financially supported by any firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer. As used in this subsection, financial support does not apply to situations wherein an applicant laboratory provides testing services to a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer.
- (b) None of the employee(s) directly involved in lirearms safety device testing, or the owner(s), shareholders(s), partner(s), officer(s), and/or director(s) of the Certified FSD Laboratory will:
 - (1) Have any contractual, organizational, employment or other financial involvement and/or relationship (spouse(s), children, sibling(s), parent(s), or in-law(s)) with any firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer.
 - (2) He a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer.
 - (3) Have any direct, indirect, or beneficial interest aggregating \$1,000 or more in any entity that is a firearms and/or firearms safety device manufacturer/importer, wholesaler, distributor, or dealer.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.41 - Security and Safety

- (a) The Certified FSD Laboratory shall have written security procedures if firearms are to be stored and/or transported by the laboratory. The laboratory staff shall be informed of these written procedures, and these procedures shall be made available to the DOJ upon request. The procedures shall address, and the laboratory shall comply with, all of the following security and safety procedures:
 - (1) The firearm(s) shall be stored unloaded by one of the following methods:

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- (A) Locked in a secure room that is a part of, or that constitutes, the licensee's business premises away from any general living or work area. All doors leading into the room shall be solid core with a dead-bolt lock or the equivalent.
- (B) In a locked safe that meets the standards for gun safes as defined in section 977.50 of these regulations or a vault in the licensee's business premises.
- (2) If the firearm(s) are stored at a location different from the principal place of business, or at the applicant's residence and that residence is rented/leased, the applicant shall submit to the DOJ written approval from the owner and the location shall meet all security requirements.
- (3) Ammunition shall be stored separately from the firearms in a secure room, cabinet or box which shall be locked while unattended.
- (4) When transporting a firearm for delivery to an authorized recipient or off-site testing location, the firearm shall be transported as required by California Penal Code section 12026.1, or as required by any applicable federal, state, and/or local statute and/or ordinance when outside of California.
- (5) Any firearm not actively being used in the testing of a firearms safety device shall be stored pursuant to subsection (a)(1) of this section. Any firearm to be shipped from the laboratory shall be stored pursuant to subsection (a)(1) of this section until arrival of the person authorized to receive the firearm or until laboratory personnel are prepared to transport the firearm for delivery to an authorized recipient.
- (6) The Certified FSD Laboratory shall maintain proper inventory control and shall report any firearm that is lost or stolen to the submitting party, if applicable, the local law enforcement agency, and the DOL within ten working days of discovery of the loss or theft. The report shall include, but shall not be limited to, the make, model, serial number, and caliber of the firearm. The laboratory shall maintain the following records relating to any such firearms: the type, make, model, caliber, barrel length, category, and serial number of the lost/stolen firearm; the date of the loss/theft; the date the loss/theft was reported to the submitting party (if applicable), local law enforcement, and the DOJ; and any case/report number(s) assigned by the local law enforcement agency to the loss/theft. The laboratory shall maintain these records for at least ten years.
- b) The Certified FSD Laboratory shall at all times ensure that:
 - (1) All persons conducting, supervising and/or observing firearms safety device testing under this program have and use personal safety equipment that meets or exceeds applicable current federal, state and/or local standards and the requirements of any occupational and/or industrial safety agency having jurisdiction over the laboratory and its activities.
 - (2) The design and operation of the laboratory's facilities meet or exceed applicable current federal, state and/or local standards and/or requirements.
 - (3) Laboratory testing staff are familiar with and exercise safe firearms handling and operational practices as defined in all applicable federal, state, and/or local laws. Staff shall also ensure that no ammunition shall be present in the firearms safety device testing area during testing.

(4) The following warning in block letters not less than one inch in height shall be conspicuously posted within all areas where firearms safety device testing is performed:

"NO AMMUNITION SHALL BE PRESENT IN OR AROUND THIS TESTING AREA DURING FIREARMS SAFETY DEVICE TESTING, OR IN THE POSSESSION OF ANY PERSONNEL ACTIVELY ENGAGED IN CONDUCTING FIREARMS SAFETY DEVICE TESTS."

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.42 - Licensing/Minimum Standards Compliance

The Certified FSD Laboratory shall at all times:

- (a) Comply with all applicable local, state, and federal laws relating to firearms safety device testing.
- (b) Ensure that any required licensing and/or approvals by any federal, state, and/or local agency having jurisdiction over the laboratory have been obtained and are maintained, including the required COE(s).
- (c) Ensure that staff are informed of all applicable federal, state, and/or local laws, which apply to the jurisdiction in which the laboratory does business, that prohibit a person from possessing firearms, and ensure that persons known to be prohibited from possessing firearms do not have access to, come into contact with, or possess firearms.
- (d) Have in its possession the equipment identified in subsection (b) of section 977.45. The laboratory shall maintain and/or calibrate the equipment in accordance with the equipment manufacturer's recommendations and requirements. The laboratory shall ensure that records of such maintenance and calibration are available for use by testing personnel and for inspection by DOJ staff.

Authority cited Sections 12088, 12088, 12088, 2, Penal Code. Reference: Sections 12088, 12088, 2, Penal Code.

977.43 - Birearms Safety Devices Testing and Submission Requirements

- Each firearms safety device submitted for testing shall not be modified in any way from one of the same model that would be sold if certification is granted. If it is determined by the DOJ that a DOJ-certified firearms safety device is modified in any way from those that are being sold after certification has been granted, the DOJ will immediately remove that model of firearms safety device from the Roster of Approved Firearms Safety Devices and may recall the firearms safety device pursuant to Penal Code section 12088.4.
- (b) Four firearms safety devices of each model to be tested shall be submitted to the Certified FSD Laboratory. Three of the devices are to be utilized by the laboratory for testing pursuant to subsection (c) of section 977.45 of these regulations, and the other device is to be utilized for testing pursuant to subsections (d) and (e) of section 977.45 of these regulations and forwarded by the laboratory to the DOJ pursuant to subsection (a) of section 977.46 of these regulations. Firearms safety device manufacturers or dealers may supply any information that they believe may be needed by the laboratory for proper and safe operation of the firearms safety device. The following information shall be provided in the English language with each firearms safety device model submitted for testing:



- (1) The model name and model number of the firearms safety device.
- (1) A description of the firearms safety device.
- (2) A description of how the firearms safety device is intended to function and how the user should install and operate (activate/deactivate) the firearms safety device.
- (3) The type, make, or model of firearm(s) for which the firearms safety device is designed.
- (c) The DOJ may approve an untested firearms safety device and list that firearms safety device on the Roster of Approved Firearms Safety Devices subject to all of the following:
 - (1) The DOJ shall review each firearm safety device submitted pursuant to this subsection on a case-by-case basis to determine whether or not a new test will be required.
 - (2) A model of firearms safety device made by the same manufacturer must already be listed on the Firearms Safety Device Roster and the device submitted for approval pursuant to this subsection shall differ from the listed firearms safety device in only the following:
 - (A) Finish, including, but not limited to, color or engraving.
 - (B) Any feature that does not in any way alter the material of functioning of any of the components of the firearms safety device. Dimensional changes in a firearms safety device may be approved by the DOJ without additional testing on a case-by-case basis when the dimensional changes do not alter the device's ability to operate in the same manner demonstrated in the laboratory.
 - (C) Change in name or model number without affecting the design or function of the firearms safety device.
 - (3) Any manufacturer seeking to have a firearms safety device approved under this subsection shall provide the DOJ with all of the following:
 - The model name and model number of the listed firearms safety device.
 - (B) The model name and model number of each firearms safety device the manufacturer seeks to have listed under this section.
 - (C) A statement, under oath, that each unlisted firearms safety device for which listing is sought differs from the listed firearms safety device only in one or more of the ways identified by this subsection and is in all other respects identical to the listed firearms safety device.
 - (D) The DOJ may, at its discretion and at any time, require a manufacturer to provide to the DOJ an example of any firearms safety device model for which listing is sought under this section, to determine whether the model complies with the requirements of this section.

§ 977.44 - Firearms Safety Device Standards

- (a) The firearms safety device shall be of a design that will not allow its removal or deactivation except by utilizing a key, combination, or other unique method as intended by the manufacturer to allow access only by authorized users, within the standards set forth in these regulations.
 - (1) Combination locking systems shall have a minimum of 1,000 possible unique combinations consisting of a minimum of three numbers, letters, or symbols per combination.
 - (2) Key locking systems shall be unique to the manufacturer's firearms safety device(s).
- (b) The firearms safety device shall render the firearm inoperable (unable to be fired) while the firearms safety device is properly installed. The firearm shall be rendered inoperable immediately upon installation and activation of the firearms safety device. Lock box style firearms safety devices must prevent removal of, and access to, the enclosed firearm.
- (c) A firearms safety device shall function by at least one of the following methods:
 - (1) By blocking travel of the trigger, striker, firing pin, or hammer.
 - (2) By preventing the action or cylinder from closing.
 - (3) By preventing the chamber(s) from accepting or holding a live cartridge
 - (4) By preventing access to the firearm
- (d) When used in the manner designed and intended by the manufacturer, the firearms safety device shall be capable of repeated use and shall pass the testing procedures described in these regulations.
- (e) The firearms safety device shall be capable of withstanding manipulation with common household tools as described in section 977.45 Testing Procedures, for an approximate ten-minute period without being disabled.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.45 - Testing Procedures

The tests in this section are designed to replicate the forces that would be exerted on firearms safety devices through the use of common household tools for an approximate ten-minute period.

- (a) The only persons allowed to conduct firearms safety device testing are authorized staff of the Certified FSD Laboratory. In addition to this staff, representatives of the firearms safety device manufacturer or dealer and/or the DOJ shall be allowed to be present during testing. Any such representative(s) shall not participate in the testing. However, if deemed necessary by the staff of the laboratory, representative(s) of the firearms safety device manufacturer or dealer may be asked to provide advice and/or guidance regarding the characteristics, handling, and/or operation of the firearms safety device.
- (b) Each laboratory testing a firearms safety device pursuant to these regulations must comply with the following test criteria relative to each firearms safety device tested:

- (1) All tests shall be conducted within the following tolerances as applicable:
 - (A) Force: 0.5% of working range.
 - (B) Height: +/- 3mm (0.12 inches).
 - (C) Torque: 4.0% of reading.
 - (D) Weight: +/- 10 grams (.02 pounds).
- (2) All tests shall be conducted at temperatures between 16 and 27 degrees Celsius (61 81 degrees Fahrenheit).
- (3) A tensile loading device having a load and force measuring capacity of 4,450 newtons (1,000 pounds force) shall be utilized for appropriate tests.
- (4) The American Society for Testing and Materials Standard Performance Specification for Padlocks (ASTM) F883-97 is incorporated into these regulations by reference. A shock impact fixture shall be constructed utilizing the same design as the shock impactor fixture illustrated and detailed in said specification and a shackle cutting fixture shall be constructed utilizing the same design as the shackle cutting fixture illustrated and detailed in said specification.
- (5) A mounting device shall be fashioned and used to align and to support the firearms safety device being tested on the mounting device when being subjected to required shock loads.
- (6) The firearms safety device shall be properly installed on a firearm according to the manufacturer's instructions unless otherwise stated in these regulations.
- (7) Firearms safety devices may be tested when they are not installed on a firearm if it is determined by the test laboratory that the firearm would interfere with the test equipment ability to apply measurable forces to the firearms safety device. Testing a firearms safety device while it is not installed on a firearm is allowed only when the measurable forces are applied to areas of the firearms safety device that would be exposed when the firearms safety device is properly installed. Firearms safety devices shall be tested on a complete firearm
- whenever possible.

 The firearms safety device shall not be of a design to allow it to be disabled or removed from the firearm through the partial destruction of the firearm with common household tools. Partial destruction includes, but is not limited to; cutting an exposed trigger guard or removing the hammer spur of the firearm (if so equipped).
- (9) Notwithstanding the firearms safety device manufacturer's instructions, for each of the tests, a primed case will be placed in the firing chamber if the chamber can be closed. The primed case shall be produced by an ammunition manufacturer and consist of the same type of case and primer as standard ammunition recommended by the firearm manufacturer. With the firearms safety device properly installed, the firearm shall be rendered incapable of firing the primed case. If the firearm discharges the primed case during any of the tests, even if only capable of firing once and even if unsafe to do so, the device is deemed to have failed testing.
- (10) Notwithstanding the firearms safety device manufacturer's instructions, for each test, the firearm shall be cocked, and the manual safety shall not be applied.
- (11) All of the tests designated in subsections (c)(1) through (c)(5) of this section shall be performed on a single firearms safety device. The test designated in subsection (c)(6) of this section shall be performed on a separate single firearms safety device. The test designated in subsections (c)(7) through (c)(8) of this section shall be performed on a separate single firearms safety device. The test designated in subsection (d) or (e) of this section shall be performed on a separate single firearms safety device.
- (12) All lock box type devices (devices designed to fully contain and enclose a firearm) shall be tested with a small handgun placed within the device. The small handgun shall be loaded with a primed case and be no greater than 5-inches (L) x 3-inches (H) x 1 1/4-inches (W) in size. The small handgun may be in addition to any other firearm(s) used in testing. Lock boxes designed to accommodate long guns must be tested with at least one long gun placed within the container in addition to the small handgun mentioned above. Lock boxes which cannot prevent

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- the removal of, or access to discharging, the firearm(s) contained within the device will be considered disabled.
- (13) Manipulation with a screwdriver, as described in these regulations, is to be applied only to the areas directly affected (weakened) by the proceeding test.
- (c) Each Certified FSD Laboratory shall perform all of the following tests on each firearms safety device model submitted to the laboratory for testing pursuant to these regulations in an attempt to defeat the device, cause the firearm to function, or cause the loaded primed case to discharge:
 - (1) Picking or manipulating test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). Cylinders in the firearms safety device shall resist picking with the use of paper clips (jumbo size), paper clips (#1 size), and small screwdrivers that fit in the keyway for two minutes each. Time shall be counted only while tools are in contact with the lock. Combination locks shall resist manual manipulation for two minutes. Time shall be counted only while hands are manipulating the combination lock. This test shall be performed by a tester with no specialized training or skills in lock picking or manipulation (e.g. locksmith training or the use of reference guides on lock picking or manipulation). In the case of a key lock, failure occurs if the lock mechanism can be disengaged during six minutes of manipulation. In the case of a combination lock, failure occurs if the combination lock can be disengaged without the proper combination being entered during two minutes of manipulation.
 - (2) Forced removal inspection. Inspect the firearm and firearms safety device to determine if the firearms safety device is of such a design that it may not be disabled or removed from the firearm through two minutes of partial destruction of the firearm with common household tools. Partial destruction attacks shall be limited to the firearm strigger guard, hammer spur, or barrel. For example, a firearms safety device that fully encloses the trigger guard of the firearm may pass this inspection, while a firearms safety device that would allow a portion of the trigger guard to be sawed off to allow for removal of the firearms safety device may fail this inspection. Failure occurs if inspection of the firearm and firearms safety device indicates that the firearms safety device may be disabled or removed through the partial destruction of the firearm as described in this subsection. Failure also occurs if the firearm could be fired, even if unsafe to do so, as a result of the forced removal inspection. Attack by saw shall be performed in accordance with the specifications and limitations of the Saw test (included by reference).
 - Tensite test (does not apply if test cannot be performed on the device). This test is designed to test the strength of the firearms safety device utilizing a pulling action. Support the firearm and firearms safety device in a fixture designed to enable application of forces in tension along a central axis of the mating locking components of the firearms safety device. Apply 1,000 newtons (225 pounds force) of force slowly along the central axis of the firearms safety device locking components without interfering or giving support to either of the mating locking components of the firearms safety device. For firearms safety devices that have clamping components, specific fixtures may be required to allow application of the required force to the individual components. Failure occurs if the firearms safety device is disabled or if the firearm is capable of firing during the test. For instance, if the firearms safety device separates far enough to allow for the discharge of the firearm while manipulating the trigger.
 - (4) Shock test (does not apply if test cannot be performed on the device). This test is designed to test the firearms safety device and locking mechanism ability to withstand shock. Using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter + one centimeter (39.4 inches + 0.4 inches) five times to the top of the firearms safety device body aligned to impinge and penetrate the locking keyway or combination lock using a chucked blade-type tool (chucked blade-type tool should be crafted from the shank of a screwdriver with a 1/4 to 5/8-inch (0.63 to 1.6 centimeter) flathead end). Additionally, using the shock impact fixture, drop a one-kilogram (2.2 pound) weight from a distance of one meter (39.4 inches), five times to the top of the firearms safety device body using a chucked steel rod

- tool. Failure occurs if the firearms safety device is disabled by the shock test. Failure also occurs if following the shock test, subsequent manipulation of the firearms safety device with an 8 to 10-inch (20.3-25.4 cm) long screwdriver with a 1/4 to 5/8-inch (0.63 to 1.6-centimeter) flathead end for fifteen seconds allows the tester to discharge a primed case.
- (5) Shackle or cable cutting test (does not apply if test cannot be performed on the device). This test is designed to determine the firearms safety device's resistance to cutting forces of 4,450 newtons (1,000 pounds force) for solid metal shackles or with hand forces of 445 newtons (100 pounds force) for cables. The shackle of the firearms safety device (if so equipped) shall withstand cutting through when blades made of steel, hardened to a minimum hardness of Rc 50, are used in conjunction with the blade positioning holders of the shackle cutting fixture. The shearing assembly must then be placed in a tensile loading device having a compression load capability and compressed with a force of 4,450 newtons (1,000 pounds force). See the ASTM F883-97 standard for details to build a shackle cutting fixture (this document is incorporated by reference into these regulations). The cable of the firearms safety device (if so equipped) shall withstand cutting through with nine-and-one-half (9 ½)-inch lineman pliers with a force of 100 pounds (445 newtons) for two minutes. The force shall be applied to the handles of the pliers at a point that is 6 inches (+/- 0.25 inches) from the center of the pliers. pivot pin, and the cable shall be placed between the blades so that the cable's centerline is 0.75 inches (+/- 0.05 inches) from the center of the pliers' pivot pin. The firearms safety device is 10⁸³ be supported on both sides of the point of the shear cut with allowance for blade clearence Failure occurs if the firearms safety device is disabled.
- (6) Plug pulling test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). This test is designed to test a cylinder lock's ability to withstand a pulling action to dislodge the plug from the cylinder, but not to test the lock's ability to withstand drilling. Drill the keyway with a number 20 (0.161 inch, 0.41 centimeter) diameter drill bit and insert a self-tapping screw of size AB 12 at least 19 millimeters 0.75 inches (1.90 centimeters) deep. Apply a required tension of 1,000 newtons (225 pounds force) axially between the case and installed screw. Failure occurs if the firearms safety device can be opened by fifteen seconds of manipulation with an 8 to 10-inch (20.3 to 25.4 centimeter) long screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway at the conclusion of the test. Failure also occurs if the firearms safety device is disabled. If the self-tapping screw cannot be inserted at least 0.75 inches (1.90 centimeters), insert the screw as far as possible, continue with the test and document the depth to which the serew was inserted. The test does not need to be applied to keyways which cannot accept the f-tapping screw due to the keyway's size, design, or materials. In addition, if the firearms safety device is of a design that it breaks the drill bit or self-tapping screw and prevents the test from being performed the test does not apply and does not need to be performed again on this
- (7) Plug torque test (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). This test is designed to test the ability of a firearms safety device's keyway, if so equipped, to withstand torque pressures. Install the firearms safety device in a rigid fixture such as a vise to support it firmly but not restrict free rotation of the plug in the cylinder. Insert a screwdriver with the largest flat blade (not to exceed 5/8 inch (1.6 centimeter)) that will fit into the keyway, so that a torque load of ten newton-meters (89 pounds force-inches) can be applied to the plug. The test technician may lightly tap the screwdriver blade into the keyway so that the blade is seated and torque can be applied. Care should be taken so as not to mar the keyway beyond what is necessary to create enough grip to perform the test. If a keyway resists the insertion of the screwdriver blade or deforms so that torque cannot be applied and the test cannot be performed, this test does not apply and does not need to be performed again on this device. Torque may be applied in any combination of clockwise or counterclockwise directions. Failure occurs if the firearms safety device is disabled.

- (8) Sawing test (does not apply if test cannot be performed on the device). Sawing tests shall be performed using a sawing machine or hand held saw. The firearms safety device may be held with an appropriate fixture to hold the device steady while sawing. The sawing test is designed to determine the firearms safety device's resistance to sawing of exposed components. Exposed components may include, but are not limited to, cables, lock bodies and hinges. The testing agent shall accomplish a test using a new standard carbon steel hacksaw blade with 32 teeth per inch (2.54 centimeters) with a constant vertical downward force of ten pounds (44.5 newtons). Only one saw blade shall be used during the test. The test shall consist of 60 cutting cycles per minute for two minutes by sawing machine, or 120 cycles, with no time limit, by hand. One cutting cycle is defined as the combination of one 6-inch forward and one 6-inch backward cutting motion. The saw attack may consist of a series of separate 120 cutting cycle attacks, but in no instance shall more than 120 cutting cycles be applied to any one "specified" location. For example, the testing agent may identify (specify) the hinge and lock body areas of a firearms safety device as vulnerable to attack. A total of 120 cutting cycles may be applied to the hinge of the device and an additional 120 cutting cycles may be applied to the lock body of the device. At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device for fifteen seconds by hand in an attempt to disable the firearms safety device. Failure occurs if the firearms safety device is disabled.
- (d) In addition to the tests specified in subsection (c) of this section, the Certified FSD Laboratory shalf perform the following tests on a model of each firearms safety device in which the firing chamber of the firearm is capable of accommodating a primed case with the firing chamber closed and the firearms safety device properly installed, that is submitted to the laboratory for testing pursuant to these regulations. This requirement does not apply to a firearms safety device that prevents access to the firearm by fully containing and enclosing the firearm (lock-box type devices):
 - (1) (Utilize a new firearms safety device). The firearms safety device shall be activated in accordance with the manufacturer's instructions as specified in paragraphs (6), (9), and (10) of subsection (b) of this section. The firearm shall be placed in a drop fixture capable of dropping the firearm from a drop height of one meter + one centimeter (39.4 inches + 0.4 inches) onto a stab of concrete flaving minimum dimensions of 7.5 centimeters X 15 centimeters X 15 centimeters (3 inches X 6 inches X 6 inches). The drop distance shall be measured from the lowermost portion of the weapon to the top surface of the slab. The firearm shall be dropped from a fixture and not from the hand. An approved drop fixture is a short piece of string with the firearm attached at one end and the other end held in an air vise until the drop is initiated.

 The firearm shall be dropped in the following orientations:
 - (A) Normal firing position with the barrel horizontal.
 - (B) Upside down with the barrel horizontal.
 - (C) If the firearm is a handgun, on the grip with the barrel vertical.
 - (D) On the muzzle with the barrel vertical.
 - (E) On either side with the barrel horizontal.
 - (F) If there is an exposed hammer or striker, on the rearmost point of the device, otherwise on the rearmost point of the weapon.
 - (2) At the conclusion of the drop test, the tester shall attempt to fire the firearm in an attempt to discharge the primed case. Failure occurs if the firearm can be operated manually, if a primed case is discharged during any of the drop tests, or if the firearms safety device is disabled following any of the orientation drop tests.
- (e) In addition to the tests specified in subsection (c) of this section, the Certified FSD Laboratory shall perform the following tests on a model of each firearms safety device that fully contains and encloses the firearm (lock-box type devices) that is submitted to the laboratory for testing pursuant to these regulations. This requirement does not apply to any lock-box type firearms safety device



that weighs more than 75 pounds (27.99 kilograms) or has a combined length and girth that is greater than or equal to 110 inches (279.4 centimeters):

- (1) (Utilize a new firearms safety device. Test shall be conducted with a firearm containing a primed case with the firing chamber closed inside the firearms safety device. This test does not need to be performed with an approved drop fixture and may be performed by hand.) The firearms safety device shall be dropped from a height of one meter + one centimeter (39.4 inches + 0.4 inches) onto a slab of concrete having minimum dimensions of 7.5 centimeters X 15 centimeters X 15 centimeters (3 inches X 6 inches). The drop distance shall be measured from the lowermost portion of the firearms safety device to the top surface of the slab. The firearms safety device shall be dropped in the following orientations:
 - (A) With the locking mechanism facing directly up.
 - (B) With the locking mechanism facing directly down.
- (2) Failure occurs if the firearms safety device is disabled or the firearm contained within the enclosed container discharges.
- (f) Failure of any test occurs if the firearms safety device is disabled, if the firearm is made to function, or if the firearm discharges the primed case during or as a result of the test. A failure of any one firearms safety device in any of the tests constitutes a failure of the complete test.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code

§ 977.46 - Test Reporting

- (a) If a firearms safety device meets the required standards and has passed the required testing, the Certified FSD Laboratory shall submit to the DOJ a completed Firearms Safety Device Compliance Test Report (DOJ Form FD 033) and the firearms safety device utilized for the drop-testing under subsections (d) or (e) of section 977.45 of these regulations in accordance with Penal Code section 12088(c). The Firearms Safety Device Compliance Test Report shall require all of the information identified in subsection (a) of section 977.47 of these regulations, and shall be signed by the person authorized to sign on behalf of the laboratory.
- (b) The Certified FSD Laboratory shall submit the required report to the DOJ within ten (10) working days of the completion of the testing. Failure to submit said report to the DOJ within the time frame identified above shall not invalidate the results of the testing. However, the DOJ may inspect the laboratory to determine whether grounds exist to revoke the certification of the laboratory.
- (c) Firearms safety device manufacturers or dealers are prohibited from placing any statement on the firearms safety device itself, the labeling, and/or accompanying user information that in any way states, implies, and/or otherwise suggests that the firearms safety device has been approved for sale in California under Penal Code sections 12088 through 12088.9 unless the firearms safety device is on the Roster of Approved Firearms Safety Devices. At that time and only while the firearms safety device is listed on the Roster of Approved Firearms Safety Devices, the firearms safety device manufacturer or dealer may place the following statement in the required user information:

"This is a California-approved firearms safety device that meets the requirements of California Penal Code Section 12088 and the regulations issued thereunder."

(d) The manufacturer or dealer of a firearms safety device approved under these regulations shall specify, in the packaging or descriptive materials accompanying the device, those firearms for which the device meets the standards and are capable of passing the testing described in these regulations.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.47 - Required Records, Retention Periods, Reporting Changes

- (a) The Certified FSD Laboratory shall, for a minimum of five years from the date of the Firearms Safety Device Compliance Test Report (DOJ Form FD 033), maintain sufficient records to support the results of any and all such reports. The following information is required to be recorded, reported, and maintained:
 - (1) The name and address of the Certified FSD Laboratory that conducted the test.
 - (2) The name and address of the firearms safety device manufacturer or dealer that submitted the firearms safety device model for testing, as well as the name and telephone number of a contact person of the submitting manufacturer or dealer. If the DOJ submitted the firearms safety device, this fact shall be noted in the records.
 - (3) Date, time, and location of the testing, and any off-site equipment and/or facilities that are used during any portion of the testing.
 - (4) The unique reference number/identifier issued by the Certified FSD Laboratory for the testing.
 - (5) The results of each phase of the required testing.
 - (6) The date the report was submitted to the DOJ

- (7) The name and telephone number of a contact person who should be contacted if there are any questions regarding the testing and/or the report.
- (8) The make, model, construction material, and type of safety device tested.
- (9) The make, model, caliber, barrel length, and type of each firearm on which the laboratory tested the device.
- (10) Identification of the manufacturer and type of primer used in the primed cases used in the testing.
- (11) An identification of each of the tests that was performed on the firearms safety device tested.
- (12) A statement that the firearms safety device meets each of the standards for firearms safety devices prescribed in these regulations.
- (13) The names and business affiliation of all persons who have witnessed any part of the testing procedure.
- (14) The name(s) and title(s) of laboratory staff who conducted and/or performed the required testing.

- (15) The signature of the lead person who conducted the testing along with his or her title and printed name, and the date of signature.
- (b) The following records shall also be maintained by all Certified FSD Laboratories:
 - (1) A listing of any and all off-site facilities that have been reported to the DOJ, and are or may be used by the Certified FSD Laboratory for firearms safety device testing.
 - (2) A listing of all current employees who are directly involved in firearm safety device testing.
 - (3) Records relating to the current ownership of the laboratory.
 - (4) Records relating each firearm stolen or lost from the laboratory must be retained for at least ten years from the date that the firearm was reported lost or stolen.
- (c) The Certified FSD Laboratory shall report within ten working days any changes:
 - (1) In the ownership, involvements, relationships, license prohibitions, and/or interests identified in sections 977.33 and 977.40 of these regulations and ensure that any such change would not constitute grounds for denial of an Application for Firearms Safety Device Laboratory Certification (DOJ Form FD 031).
 - (2) Involving management personnel, firearms safety device testing supervisor(s) and/or personnel, persons authorized to sign Firearms Safety Device Compliance Test Report (DOJ Form FD 033), person(s) who hold COE(s); and/or the firearms safety device testing equipment and/or facilities of the laboratory.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.48 - Off-Site Location

- (a) A Certified FSD Laboratory may not utilize any firearms safety device testing equipment and/or facilities that are at a location other than the primary business address of the laboratory unless all of the following conditions are met:
 - The off-site location is not more than 100 miles from the primary business address.
 - (2) The laboratory provides the following information to the DOJ prior to beginning any testing at the off-site location: the name of the facility/owner, telephone number, physical address of the location; and the type of equipment and/or facilities to be used and/or the testing to be performed at each location.
- (b) Notwithstanding subsection (a) of this section, if more than one off-site location is needed for testing purposes, the applicant or Certified FSD Laboratory must submit a completed Request to Utilize an Additional Off-Site Location (DOJ Form FD 032) for each such location. The DOJ Form FD 032 shall include the following information:
 - (1) Applicant or Laboratory Information: The person(s), firm, or corporation name; physical and mailing address(es); and telephone and fax number.

- (2) Off-Site Location Information: The name of the owner; physical street address, telephone number; the testing to be performed and/or equipment to be used at the off-site location; the signature of the Certified FSD Laboratory's authorized representative; and the county, state, and date of signature.
- (c) The DOJ reserves the right to prohibit a laboratory from conducting firearms safety device tests at an off-site location if the results of any such testing could not be rendered fairly, impartially, and independent of any manufacturer, importer or other entity which has any direct and/or indirect economic interest in the results of the testing.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.49 - Inspections

- (a) At any time during regular business hours and/or when testing is being conducted, the Certified FSD Laboratory shall allow reasonable access by any authorized DOJ employee(s), upon presentation of proper identification. The DOJ employee(s) shall be permitted to inspect facilities and records relating to firearms safety device testing and to observe any firearms safety device tests being performed to ensure compliance with any applicable federal, state, and/or local law(s) and these regulations.
- (b) Within six months of the date of FSD Laboratory Certification, the DOJ will conduct a follow-up on-site compliance inspection of the laboratory to observe actual firearms safety device testing and inspect equipment and facilities.
- (c) The Certified FSD Laboratory will be notified in writing of the results of any inspection conducted pursuant to this section within 15 days from the date of the completion of the inspection. The notification will include a fist of any and all violations of any statute and/or these regulations and the action required to correct each violation.
- (d) The corrective action shall be completed within 15 days of the date of notification. An acknowledgment prepared by the DOJ to be signed by the owner, chief executive officer, or person with primary responsibility for the operation of the laboratory that they have been made aware of the violation(s), that the necessary corrective action(s) have been performed, and that all necessary action(s) will be taken to ensure that future violations do not occur. The acknowledgment shall be signed and returned to the DOJ within 15 days from the date of service of the notification unless the DOJ has determined that the violation requires immediate attention. If immediate attention is required, the laboratory shall take the corrective action(s) within the time specified in the DOJ notice.
- (e) The Certified FSD Laboratory shall submit to the DOJ a monthly schedule of the days on which it is planning to perform firearms safety device testing. The schedule for each month shall be submitted to the DOJ five days before the beginning of the month being reported. The DOJ may contact the laboratory telephonically for information regarding any additions/deletions to the schedule. The DOJ may accept schedules submitted by electronic transmission.



§ 977.50 - Gun Safe Standards

An acceptable gun safe is either one of the following:

- (a) A gun safe that meets all of the following standards:
 - (1) Shall be able to fully contain firearms and provide for their secure storage.
 - (2) Shall have a locking system consisting of at minimum a mechanical or electronic combination lock. The mechanical or electronic combination lock utilized by the safe shall have at least 10,000 possible combinations consisting of a minimum three numbers, letters, or symbols. The lock shall be protected by a case-hardened (Rc 60+) drill-resistant steel plate, or drill-resistant material of equivalent strength.
 - (3) Boltwork shall consist of a minimum of three steel locking bolts of at least ½ inch thickness that intrude from the door of the safe into the body of the safe or from the body of the safe into the door of the safe, which are operated by a separate handle and secured by the lock.
 - (4) A gun safe shall be capable of repeated use. The exterior walls shall be constructed of a minimum 12-gauge thick steel for a single-walled safe, or the sum of the steel walls shall add up to at least 0.100 inches for safes with two walls. Doors shall be constructed of a minimum one layer of 7-gauge steel plate reinforced construction or at least two layers of a minimum 12-gauge steel compound construction.
 - (5) Door hinges shall be protected to prevent the removal of the door. Protective features include but are not limited to: hinges not exposed to the outside, interlocking door designs, dead bars, jeweler's lugs and active or inactive locking bolts.
- (b) A gun safe that is able to fully contain firearms and provide for their secure storage, and is certified to/listed as meeting Underwriters Laboratories Residential Security Container rating standards by a Nationally Recognized Testing Laboratory (NRTL).

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.51 - Gun Safe Proof of Ownership of an Acceptable Gun Safe

- (a) The firearms purchaser or transferee may establish proof of ownership of an acceptable gun safe by providing the firearms dealer with both of the following:
 - (1) Afterceipt for purchase of the gun safe or an affidavit stating ownership and possession of the gan safe.
 - (2). An affidavit stating that the gun safe meets the standards set forth by section 977.50 of these regulations. The affidavit must state the make and model of the gun safe and must state that the gun safe is capable of accommodating the firearm being purchased. The affidavit must contain the statement "I declare under penalty of perjury that all statements made in this affidavit are true and complete." This statement shall be signed and dated by the firearms purchaser or transferce. For any gun safe which does not display a make and/or model but otherwise meets the acceptable gun safe standard, the term "unknown" will be considered an acceptable entry in the make and/or model fields of the affidavit stating ownership of an acceptable gun safe.
- (b) The firearms dealer shall maintain the statement(s) provided pursuant to subsection (a) of this section for three years with the dealer's record of sale for the firearm.

§ 977.52 - Lock Box - Proof of Ownership of an Acceptable "Lock Box" Type Firearms Safety Device

- (a) The firearms purchaser or transferee may establish proof of ownership of an acceptable lock box that is listed on the Roster of Firearms Safety Devices Certified for Sale by providing the firearms dealer with both of the following:
 - (1) A receipt for purchase of the lock box.
 - (2) An affidavit stating that the lock box is listed on the Roster of Firearms Safety Devices Certified for Sale and will accommodate the firearm(s) that is being taken into possession. The affidavit must state the make and model of the lock box and that the lock box is capable of accommodating the firearm(s) being purchased. The affidavit must contain the statement "I declare under penalty of perjury that all statements made in this affidavit are true and complete." This statement shall be signed and dated by the firearms purchaser or transferee.
- (b) The firearms dealer shall maintain the statement(s) provided pursuant to subsection (a) of this section for three years with the California Dealer's Record of Sale (DROS).

Authority cited: Sections 12088, 12088.1, 12088.2, Penal Code. Reference: Sections 12088, 12088.2 Penal Code.

§ 977.55 - Required Warning Notice - Affixation to Firearms Sold Without Accompanying Packaging

Any firearms dealer who sells or transfers a firearm that does not have accompanying packaging bearing the warning statement specified in Penal Code section 12088.3 shall, using a string, rubber band, or similar device, affix a warning label described in Penal Code section 12088.3 to that firearm.

Authority cited: Section 12088.3, Penal Code. Reference; Section 12088.3, Penal Code.

Article 5 - DOJ Suspension of Revocation of FSD Laboratory Certification

§ 977.60 - DQJ Suspension or Revocation of FSD Laboratory Certification

- a) The DOJ may suspend or revoke a laboratory's FSD Laboratory Certification for any of the following:
 - (1) Any act of gross negligence.

- Repeated acts of negligence.
- (3) Any violation of these regulations and/or any applicable statute.
- (4) Any of the grounds for denial stated in section 977.33 of these regulations
- (b) Any suspension or revocation action will be conducted in accordance with Chapter 5 (commencing with section 11500), Part 1, Division 3, Title 2 of the Government Code.
- (c) Upon DOJ suspension or revocation of certification under this section, the laboratory may not test firearms safety devices for approval under these regulations.

Article 6 - FSD Laboratory Certification Renewal; FSD Laboratory Certification after Expiration

§ 977.70 - FSD Laboratory Certification Renewal Procedures

An FSD Laboratory Certification must be renewed prior to expiration in order to remain valid. The procedure for FSD Laboratory Certification renewal is as follows:

- (a) The DOJ will mail an application to the laboratory 60 days prior to the expiration date of the FSD Laboratory Certification.
- (b) The Certified FSD Laboratory wishing to renew its FSD Laboratory Certification shall submit to the DOJ an Application for Firearms Safety Device Laboratory Certification, Form FD 031.
- (c) When all applicable requirements are met and the application has been processed, the DOJ will renew the laboratory's FSD Laboratory Certification.
- (d) If a laboratory fails to comply with these renewal requirements, the FSD Laboratory Certification shall expire by operation of law at midnight on the expiration date stated on the FSD Laboratory Certification.

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

§ 977.71 - FSD Laboratory Certification after Expiration

When an FSD Laboratory Certification has expired and not been renewed prior to the stated expiration date, the person, firm, or corporation wishing to renew certification shall make a new application to the DOJ on an Application for Firearms Safety Device Laboratory Certification, (DOJ Form FD 031).

Authority cited: Sections 12088, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

Article 7 - Service of Notices, Orders, and Communications

977.80 - Service of Notices, Orders, and Communications

- a) Except as otherwise provided by law or in these regulations, notices, orders, and other communications may be sent by United States mail, electronic transmission, and/or common carrier to an applicant or Certified FSD Laboratory at the address shown on the Application for Firearms Safety Device Laboratory Certification, (DOJ Form FD 031).
- (b) Notices and orders shall be deemed to have been served upon their deposit, first-class postage prepaid, in the United States mail, and the time specified in any such notice shall commence to run from the date of such mailing.

Article 8 - Roster of Approved Firearms Safety Devices, Appeal Process

§ 977.85 - Roster of Approved Firearms Safety Devices

- (a) Within ten days of the receipt of the Firearms Safety Device Compliance Test Report (DOJ Form FD 033), and one firearms safety device, from the Certified FSD Laboratory; the DOJ will determine whether the firearms safety device may be placed on California's Roster of Approved Firearms Safety Devices. After the determination by the DOJ that the firearms safety device may be listed, the DOJ will add the firearms safety device to the Roster of Approved Firearms Safety Devices.
- (b) Within ten days of the receipt of the request from a firearms safety device manufacturer or dealer to add a firearms safety device to the Roster of Approved Firearms Safety Devices, the DOJ will determine whether the firearms safety device may be listed without testing. If the DOJ finds that the firearms safety device may be listed, the DOJ will add the firearms safety device to the Roster.
- (c) A firearms safety device may be excluded from the Roster of Approved Firearms Safety Devices for any of the following reasons:
 - (1) If it is determined that the firearms safety devices submitted for testing were modified in any way from those that were sold after certification was granted.
 - (2) If it is determined that the firearms safety device does not meet established standards based upon further testing.
 - (2) If the firearms safety device manufacturer or dealer requests that the firearms safety device be removed from the roster.
- (d) A firearms safety device manufacturer or party of interest may submit a written request to list a firearms safety device that was voluntarily discontinued. The written request must state that no modifications have been made to the model and be submitted to the DOJ.

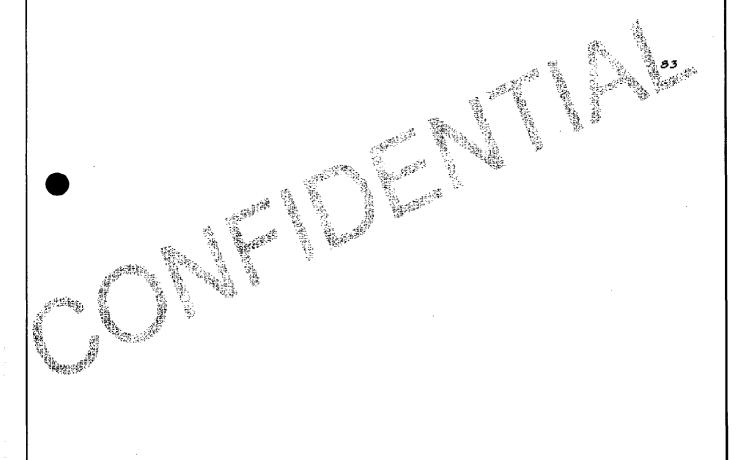
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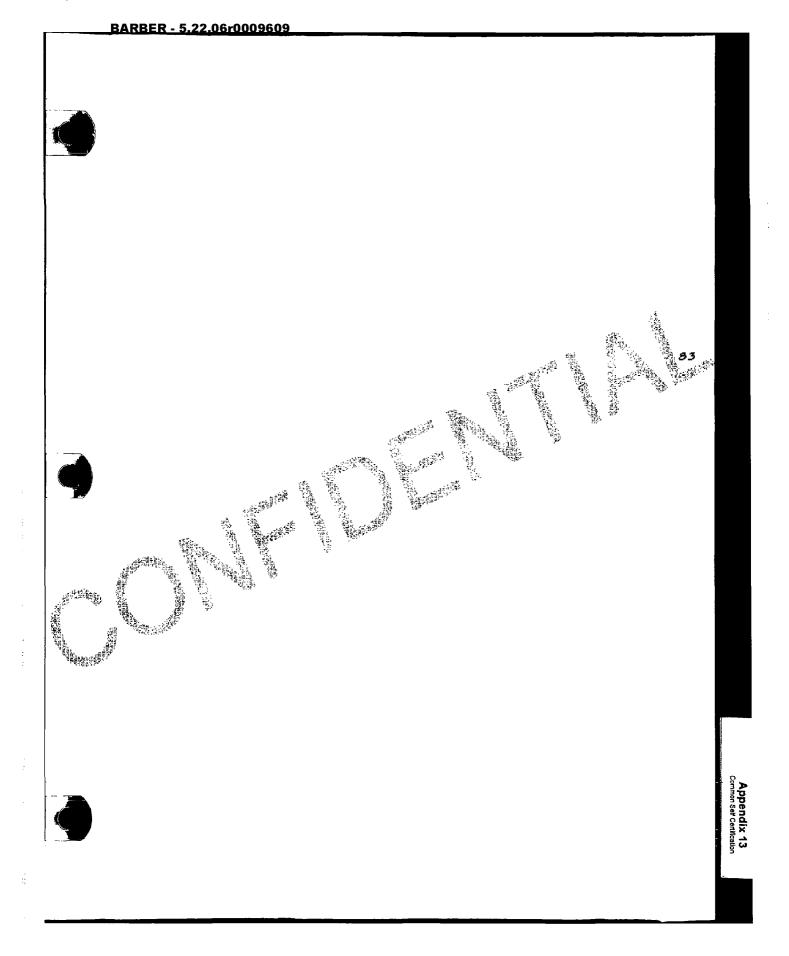
§ 977.90 - Appeal Process for DOJ Exclusion of a Firearms Safety Device Model from the Roster of Approved Firearms Safety Devices

- a) Upon DOJ-initiated removal of a model of a firearms safety device from the Roster of Approved Firearms Safety Devices, or a refusal by the DOJ to list a model of a firearms safety device on the roster, the DOJ shall immediately notify the manufacturer, dealer, or other affected party of interest of the action.
- (b) The manufacturer, dealer, or affected party of interest may, within 30 days following the date of removal, appeal the DOJ action by providing the DOJ with the following:
 - (1) Written request to appeal the removal.
 - (2) Evidence supporting any claim that the DOJ may have acted improperly in its exclusion of the firearms safety device from the roster or in its refusal to list the device on the roster.
 - (3) Evidence that the firearms safety device meets the standards described in these regulations.

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- (4) Any other information that the manufacturer, dealer, or other affected party of interest deems of importance.
- (5) Any other information that the DOJ deems necessary to determine whether the firearms safety device meets the standards described in these regulations.
- (c) Within 30 days after the deadline prescribed in subsection (b) of this section, the DOJ shall consider all relevant facts regarding the firearms safety device and make a determination regarding whether that firearms safety device qualifies to be listed on the Roster of Approved Firearms Safety Devices. If the DOJ makes a finding that the device qualifies for listing on the roster, the DOJ shall immediately add that device to the Roster of Approved Firearms Safety Devices.







BILL LOCKYER Attorney General

State of California DEPARTMENT OF JUSTICE

FAX TRANSMISSION COVER SHEET

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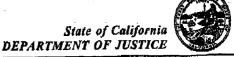
When completing the Department of Justice Firearms Safety Device Listing Request, if you decide to provide a list of firearms that your device can be properly installed and used with, the list must be submitted using a standardized Excel spreadsheet template. The template will be provided to you upon request, and the completed spreadsheet should be returned via email. Please email your request or completed spreadsheets to karen.kerr@doj.ca.gov

Thank you!

PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER

JUS 133 (6/96)

BILL LOCKYER Attorney General



P.O. BOX 160487 SACRAMENTO, CA 95816-0487 Facsimile: (916) 263-0676 (916) 263-0849

December 16, 2003

Via Facsimile Transmission

Mr. Marlin Jiranek 315 W. Ring Road Elizabethtown, KY 42701

RE: California Firearms Safety Device Certification

Dear Mr. Jiranek:

The Firearms Division has received the Compliance Test Reports and firearms safety devices for the models indicated on the enclosed Listing Request. Firsuant to section 977.85, Title 11, Division 1, Chapter 12.6, of the California Code of Regulations, this firearms safety device will be added to the Roster of Approved Firearms Safety Devices.

There is a certification section at the bottom of each Listing Request. To ensure that the Roster of Certified Firearms Safety Devices contains correct information regarding your firearms safety device, please review the Listing Request, and answer the questions for the model indicated on each certification form. In addition, if the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing, you may provide a listing of those firearms or the dimensions of firearms with characteristics that will allow your device to perform in a safe and proper manner. For example: you may specify a make and made of firearm; specific or range of calibers; types (pistol, revolver, shotgun, rifle, etc.), or firearms with a trigger guard that is X-inches long and X-inches wide, etc. The information regarding the firearm(s) on which the firearms safety device was tested and the additional firearm(s) for which you certify that the firearms safety device can be properly used will be included on the Roster of Certified Firearms Safety Devices. The certification must be completed by a representative of the company, signed, and returned to the Division.

If you have any questions, please call me at (916) 263-4885.

K. KERR, Analyst

Firearms Information Services Section

For BILL LOCKYER
Attorney General

Enclosure

ET47744

TRANSMISSION VERIFICATION REPORT

TIME NAME FAX TEL 01/20/2004 17:13 REMINGTON ETOWN 2707379576

SER.# : BROF3J504350

DATE, TIME FAX NO./NAME DURATION PAGE(S)

01/20 17:12 19162745992 00:01:10 06 OK FINE ECM

Remington.

FACSIMILE TRANSMITTAL SHEET

To:

K.J. KERR

Date:

Company:

From:

Fax No.:

(916) 274 - 5992 Fax No.:

Phone No.:

Phone No.:

Number of pages including Cover Sheet:

COMMENTS:

PRIVILEGED AND CONFIDENTIAL

This facsimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure. If you are not the intended recipient please do not disseminate, distribute, or copy this communication. Instead, please notify the sender immediately by return fax or by telephoning the number above and discard all copies of this fax.

Remington Arms Company, Inc. • 315 W. Ring Road • Elizabethtown, KY 42701 Phone 270-769-7600 • Fax 270-737-9576 • www.remington.com

Department of Justice (DOJ) Firearms Safety Device Listing Request

8/01

Report ID:	239	FSD Model:	870 Express Plastic Two-Dot ISS
Lab Ref#:	F\$D428	Lock Type:	Hex Key
		FSD Make:	Remington
		FSD Type:	Trigger Lock
Firearm Make:	Remington	Firearm Model:	870 Express
Caliber:	12 gauge	Barrel Length:	28.0"
		Primer:	Fiocchi

Department of Justice Firearms Safety Device Manufacturer/Dealer Model Designation Certification

those that are currently in stock and/or being sold? Yes No _X (If "Yes," please explain) If the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing you may provide a listing of those firearms or the dimensions of firearms with characteristics that will allow your device to perform in a safe and proper manner. For example: you may specify a make and model of firearm; specific or range of calibers; types (pistol, revolve), shotgun, rifle, etc.), or firearms with a trigger guard that is X-inches long and X-inches wide, etc. The division will review the installation of the device and the firearm on which the device will be installed, and if the installation method is the same as what was tested the device can be extended DOJ-certification. The information regarding the firearm(s) on which the firearms safety device was tested and the additional firearm(s) the division has approved for use will be included on the Roster of Firearms Safety Devices certified for Sale. The certification must be completed by a representative of the company, signed, and returned to the division. Attach additional copies of this sheet if necessary. Reministry Models 970 1000 11-87, 7400 7600, 552 Allow 572 Refers And Shortons, Acc VARIANTS SEE ECOMPANYING PAGE FOR PARAGRAPH ON WEBSITE. I declare under penalty of perjury according to the laws of the state in which this certification is executed that all statements made herein are true and complete. Signature: Mare Title (Printed): Mare Till R. Jeanette.	Were the firearms safety devices for the above referenced model in any way modified from
Yes No _X (If "Yes," please explain) If the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing you may provide a listing of those firearms or the dimensions of firearms with characteristics that will allow your device to perform in a safe and proper manner. For example: you may specify a make and model of firearm; specific or range of calibers; types (pistel, revolve), shotgun, rifle, etc.), or firearms with a trigger guard that is X-inches long and X-inches wide, etc. The division will review the installation of the device and the firearm on which the device will be installed, and if the installation method is the same as what was tested the device can be extended DOJ-certification. The information regarding the firearm(s) on which the firearms safety device was tested and the additional firearm(s) the division has approved for use will be included on the Roster of Firearms Safety Devices Certified for Sale. The certification must be completed by a representative of the company, signed, and returned to the division. Attach additional copies of this sheet if necessary. **REMINGTON MODELS 970 1100 11-81 7400 7600 552 AND 572 RIFLES AND SHOTCHUS, ALL YARIANTS **SEE KCOMPANYING PAGE FOR PARASATH ON WEBSITE.** I declare under penalty of perjury according to the laws of the state in which this certification is executed that all statements made herein are true and complete. Signature: **Market** Name/Title (Printed): Market** Name/Title (Printed): Market**	those that are currently in stock and/or being sold?
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Name/Title (Printed): MARLIN R. JIRANEK	
	Name/Title (Printed): MARIN R. JIRANEK
Date: SENIOR RESEARCH ENGINEER	Date: SENIOR RESEARCH ENGINEER
Phone number(s) that you would like posted on the Internet with your product certification (optional): Local Toll Free	

Department of Justice (DOJ) Firearms Safety Device Listing Request

Rev 8/0

Report ID:	240	FSD Model:	870 Express Aluminum Two-Dot I
Lab Ref#:	FSD429	Lock Type:	Hex Key
1		FSD Make:	Remington
		FSD Type:	Trigger Lock
Firearm Make:	Remington	Firearm Model:	870 Express
Caliber:	12 gauge	Barrel Length:	28.0"
		Primer:	Fiocchi

Department of Justice Firearms Safety Device Manufacturer/Dealer Model Designation Certification

Were the firearms safety devices for the above referenced model in any way modified from
those that are currently in stock and/or being sold?
Yes No X (If "Yes," please explain)
If the firearms safety device can be properly installed and used on firearms other than the firearm(s) that was used for testing, you may provide a listing of those firearms or the
dimensions of firearms with characteristics that will allow your device to perform in a safe and
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firearm(s) the division has approved for use will be included on the Roster of Firearms Safety
Devices Certified for Sale. The certification must be completed by a representative of the
company, signed, and returned to the division. Attach additional copies of this sheet if
necessary.
REMINISTON MODELS 870, 1100, 11-87, 7400, 7600, 552, AND 572 RIFLES AND SHOTGUNS, ALL VARIANTS
912 RIPLES AND SHOTERUNG, ALL VARIANTS
SEE ACCOMPANYING PAGE FOR PARAGRAPH ON WEBSITE
I declare under penalty of perjury according to the laws of the state in which this certification
is executed that all statements made herein are true and complete.
Signatura: All (Dan
Name/Title (Printed). MARLIN R. JIRANEK
Date: SENIOR RESEARCH ENGINEER
Phone number(s) that you would like posted on the Internet with your product certification
(optional): Local Toll Free

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+ .	

P,	FSD Make	FSD Model	Can the FSD be used on Pistols?		Decring ers?		Can the FSD be used on Shotguns?	Can the device only be used on specific caliber(s)?	Have you self- certified additional models/types of firearms?	Is the FSD available to OEM only, retail only, or a combination of retail and OEM?
	Remington	870 Express Plastic Two- Dot ISS Trigger Guard	MO	No	NO.	YES	YES	ANY	YEG 870, 1109 11-87 7409, 7600 552, 572	O EM ONLY
FAX NO.	Remington	870 Express Aluminum Two-Dot ISS Trigger Guard	NO	No	No .	YES	Y5.5	ANY	YES 870, 110°, 11-87 7400, 7600 552, 572	OBM ONLY

For each approved firearms safety device please indicate "yes" or "no" in each column.

If you will self certified additional models/types of firearms please provide the Department with copies of the installation instructions for each additional models/types.

Remington.

REMINGTON ARMS COMPANY, INC.

RESEARCH & DEVELOPMENT TECHNOLOGY CENTER
315 W. RING ROAD
ELIZABETHTOWN, KY 42701
(270) 769-7600 FAX (270) 737-9576

January 21, 2004

K.J. Kerr Analyst Firearms Division, CA Department of Justice P.O. Box 160487 Sacramento, CA 95816-0487

RE: DOJ Firearms Safety Device Listing - 870 Express Two-Dot ISS

K.J.,

Per the CA DOJ firearms safety device listing request. I would like to present the following information for listing. Both the M/870 Express Aluminum Two-Dot ISS (FSD429) and the 870 Express Plastic Two-Dot ISS (FSD429) will have the same information in the listing, the only difference being that one has an aluminum housing and one has a plastic housing.

Internal to Remington, the FSD's are referred to as a "common fire-controls". This is because the trigger, housing in regards to the safety mechanism, and safety mechanism itself are identical and used in several different firearms products. The "common fire-control" system is utilized in all Remington 870, 1100, and 11-87 shotgun models, all Remington 7400 and 7600 centerfire rifle models, and all Remington 552 and 572 rimfire rifle models. Remington is continuously working on improving current product offerings and may, in the future, develop new firearm platforms that utilize the same common fire-control design.

Both of the firearms safety devices (FSD429 & FSD428) are only manufactured by Remington Arms Company for Remington products. At this time, Remington has not implemented the new device into current production shotguns and rifles, therefore, the two firearms safety devices are not currently available for sale. Remington will notify the CA DOJ when a change occurs and the firearms safety devices become available for sale.

SPORTING ARMS—AMMUNITION—TARGETS—APPAREL—ACCESSORIES—STREN FISHING LINES Page 1 of 2

ET47750

Remington.

REMINGTON ARMS COMPANY, INC.

RESEARCH & DEVELOPMENT TECHNOLOGY CENTER
315 W. RING ROAD
ELIZABETHTOWN, KY 42701
(270) 769-7600 FAX (270) 737-9576

In response to the requested CA DOJ spreadsheet information:

- 1. The FSD CANNOT be used on pistols
- 2. The FSD CANNOT be used on revolvers
- 3. The FSD CANNOT be used on derringers
- 4. The FSD CAN be used on rifles
- 5. The FSD CAN be used on shotguns
- 6. The FSD can be used on ANY caliber or gage
- 7. Remington wants to self-certify the following models: 870, 1100 and 11-87 shotguns, 7400 and 7600 centerfire rifles, and 552 and 572 rimfire rifles
- 8. The FSD is available to OEM only. It is manufactured exclusively by Remington for Remington products only at this time.

The paragraph listed for the description on the website should read as follows:

Manufacturer states that Remington Model 870, 1100, and 11-87 shotguns, Remington Model 7400 and 7600 centerfire rifles, and Remington Model 552 and 572 rimfire rifles equipped with 2-dot version of the Remington Integrated Security System (ISS) function properly without an additional fivearms safety device. To identify a Remington shotgun or rifle which has a 2-Dot ISS device installed, took for the presence of 2 white dots next to the J-shaped locking cylinder/safety button.

If you have any questions, please feel free to contact me at your convenience. My office telephone number is (270) 769-7645, 8am-5pm EDT.

Sincerely

Marlin R. Jiranek, II Senior Research Engineer

SPORTING ARMS—AMMUNITION—TARGETS—APPAREL—ACCESSORIES—STREN FISHING LINES
Page 2 of 2

ET47751