



	Kemington Arms Company, Inc.	CONFIDENTIAL	Research and Development. Technical Center Elizabethtown, Kentucky
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	CA DO	OJ CERTIFIC	CATION
	FIREAF	RMS SAFETY	<b>DEVICE</b>
	REMINGTO	ON ISS & ETRONY	PRODUCTS
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àng.		Prepared by: Marlin R. Jiranek, IF Senior Research Enginee	r
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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. e Nix qe

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Safety Device	Date Tested	UŠTL I.D.	Result
MTTOC LS S.	000002.2.00	PSCOCS	
M/710 I.S.B.	October 3, 2001	F\$D096	FAIL
M/870 Aluminum I.S.S.	October 3, 2001	FSD097	FAIL -
M/870 Synthetic LS.S.	<sup>7</sup> October 2, 2001	FSD094	EANL ST
M/597 I.S.S.	October 2, 2001	FSD095	[FAYL
M/T00 EtronX Keyswitch	October 2, 2001	FSD092	FAIL
WETE UTDESVER SATURATE US S.	September 17, 2002 ]	F\$7302	PASS
METO 2-Dat Aluminare LS.S.			E_PASS_
M/870 2-Dot Synthetic I.S.S.	January 9, 2003	F\$D320	FAN
M/597 2-Dot I.S.S.	January 9, 2003	FSD321	FAN.
MERO 2-DOI ALIMMAN ASS	Novambar 12, 2003	F. <u>SC</u> 429	L PASS_
NITE 2 Det Synthetic 15.8	New manager (1) at 1 to	terres (burnes	1-114-00
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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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 CAOOJ 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 nite 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 (Impaci)
- 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 tole. This pin would successfully block a saw attack directly from the back of the trigger bow, similar to the attack presented in Figure 2.



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 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 safe for the commercially available devices. In this case, the MIM trigger mold and the modification 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 the 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 DOI also included that the firearms safety devices do not have to be tested in their final compete 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 fanuary 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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## 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:

Marlin Jiranek Research Engineer

Marlin R. Jiranek, II Research Engineer

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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 DOI web-site: <u>http://caag.state.ca.us/firearms/regs/ab106index.htm</u>

<u>The cost of completing the evaluation is estimated to be \$4,000. The estimated</u> <u>completion date of testing, based on a start date of July 30, 2001, is October 31, 2001.</u> 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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#### 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.



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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 inoperable functile 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 fire-control, it operates by blocking movement of the trigger.

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 signation for a first of a fir

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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 detailed 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 on 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 along the central axis 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".

<u>This test does not apply to the ISS device and will not be tested</u>. 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  $\pm$  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  $\frac{4}{105}$  to  $\frac{5}{8}$ -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  $\frac{4}{105}$  to  $\frac{5}{8}$ -inch (.63 to 1.6 centimeter) flathead end allows the tester to discharge a primed case".

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<u>This test will be conducted on the ISS device.</u> 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 first cannot be performed on the device). This test is designed to determine the firearms safety device 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 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 when a force of 100 pounds (445 newnors) for two minutes with the firearms safety device supported on both side 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 will 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 tests on a model of each firearms safety device in which the firing chamber of the firearm is capable of accompadating 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 manufacture'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 concrete maxing 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 weapon to the top surface of the slab. The firearm shall be dropped from a fixture and not from the hund. An approved drop fixture is a short piece of string with 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".

<u>The test will be conducted on the ISS device.</u> 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.



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United States Test Laboratory omfiidential 316-832-1600 3448 N. Emporia 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 Sates Device Testing to California Penal Code Section 12088 and regulation section 977.45, Chapter 2.6, Epvision 1, Fitle 11. U Alxy USTL will test the Remington products to the applicable test as required by the regulation above. USTL will need three complete rifles or shotguns that have the safety device installed and an additional three (2) device that can be installed in the rifle or shotgui 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 LISTL. The remaining safety devices will be returned to Remington Arms. Shipping to USTL and California DOJ, is to be provided by Remington Arms, or we will bill you for the shipping tharges. is China an The fee for the testing is \$800.00 per model. Terms are Net 30 days from invoice date. Should you have any further questions, plcase feel free to give me a call. Our current FFL is enclosed. i. North Sincerely mouser Richard W. Mouser President

÷Ż 99j DEPARTMENTION THETREASURY - BUREAU OF ALCOHOL. TOBACCO AND FIREARMS WCENSE (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 Coapter 44, Title 18, United States Code, and the regulations issued thereunder, until the expiration date shown, Sec. WARNINGS' and "NOTICE" on reverse. LIGENSE .... NUMBER 5-48-173-01-3G-00053 CHIEF. NATIONAL LICENSING CENTER ATF. P.O. Box 2996 O/RECT ATF .:: CORRESPONDENCE -0 SXPIRATION Atlanta, GA 30301-2994 OATE July 1, 2003  $\left\{ \hat{q}_{i}^{\dagger} \hat{q}_{i} \right\}_{i=1}^{n}$ NAME \$ 4. pt Etemses Address igi. UNITED STATES TEST LABORATORY 3448 N EMPORIA WICHITA, KS 67219-TYPE OF  $\approx \frac{1}{2}$ LCENSE 01-DEALER IN FIREARINS OTHER THAN DESTRUCTIVE DEVICES CHIEF, NATIONAL JCENSING CENTER PURCHASING CERTIFICATION LICENSEE I certify that this is a true copy of a license ... issued to perfore loggage in the posities specified. MOUSER, RICHARD W (SIGNATURE OF LICENSEE) UNITED STATES TEST LABORATORY 3448 N EMPORIA The licensee named herein shall use a reproduction of WICHITA, KS 67219this license to assist a transferor of firearms to verify the identity and the licensed status of the licensee asprovided in 27 CFR Part 178. The signature on each reproduction must be an ORIGINAL signature. 18 22: X 1. Mar. ATE FORM 9-5310 111 (6/91) PREVIOUS EDITION IS OBSOL STE Sec. ୍ ଜ

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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 DOL 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 lesting taboratory. 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

4078§

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:

> FFL No.: Exp. Date:

United_	States Test Laboratory			
3448 North Emporia Street				
Wichita	, KS 67219			
Phone:	(316) 832-1600			
FAX:	(316) 832-1602			

Richard W. Mouser President 5-48-173-01-3G-00053

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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.

Remington ISS Testing per the California DOJ Firearms Safety Device Regulations						. 4 5.0. 873			
					Re	sults		1285.	2018) 1929 1929
			Fire Control Type			48° 40	1988 1988		
Test No.	Test Description	DOJ Regulation	710 Bolt	700 Bolt	597 Housing	870 Syn. Housing	-870 At Housing	700 EtronX	7,83 5. 7.69
1	Picking / Manipulation Test	977.45 subsection c.1	Pass	Pass	Pass "	Pass	Not Teend	Pass	
2	Forced Removal Inspection	977.45 subsection c.2	Post	Past	Pass	Pate	Not Tested	Pass	.(24-
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	Pas	FAIL	Pass	Not Tested	TAIL	
5	Shackle/Cable Cutting Test	977.45 subsection e.5	N/A	N/A	N/A - 9	N/A	N/A 33	N/A	
6	Plug Pulling Test	977.45 subsection c.6	Para	Pass	Pass	Pass i	Not Tested	Pass	
7	Plug Torque Test	977.45 subsection c.7	Pass	Pass 2	Pass 1	Pass	Not Tested	FAIL	
8	Sawing Test	977.45 subsection c.8	FAIL	ass	FAIL	FAIL	FAIL	N/A	
9	Drop Testing (Firearms)	977.45 subsection d	Piles C		Pass	Pass	Not Tested	Pass	
10	Drop Testing (Enclosures)	977,45 subsection e	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 frigrams 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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#### State of California – Department of Justice

Firearms Division PO Box 160487 Sacramento, CA 95816-0487 Steven Teeters Phone: (916) 263-0849 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 toplace 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.

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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 "unibo" 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  $\frac{1}{4}$ " 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 internation 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 AB12 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.

This jest 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

Plug Torque Test

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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 drop testing, the firearm discharged the primed case or at the conclusion of the dropping portion of the test the firearm can be discharged without unlocking the safety device.

#### • Drop Test (Enclosures)

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

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 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-leck safety device. EtronX Shock Test Failure The Etron X key switch device failed during the shock testing as the 4" 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. Page 9 of 9 October 12, 2001 Marlin R. Jiranek, II Remington Project: 241315 Research Engineer
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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 atuminum 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 freat 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 HR15n 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 "J" 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 common 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

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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-"J" 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.



#### M/710 RESULTS

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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.

REMINGTON I.S.S. DEVICE MATERIAL SPECIFICATIONS											
PART NAME	DRAWING NO.	MATERIAL	HEAT TREATMENT	HARDNESS							
Safety - Right Hand	D-201212	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 88-92							
Lock Tumbler Blank	D-210222	MIM Iron 2% Ni	None Specified	None Specified							
Lock Tumbler	C-109540	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 88-92							
Safety - Right Hand	D-201216	MIM Iron 2% Ni	Carburize 0.7% C. Potential	HR15n 85-91							
Lock Tumbler Blank	D-300420	MPIF MIM-4605	Oil Quench & Temper	HRc 42-47 or Equivalent							
	REMI PART NAME Safety - Right Hand Lock Tumbler Blank Lock Tumbler Safety - Right Hand Lock Tumbler Blank	REMINGTON I.S.S. DE       PART NAME     DRAWING NO.       Safety - Right Hand     D-201212       Lock Tumbler Blank     D-210222       Lock Tumbler Blank     D-210222       Safety - Right Hand     D-201216       Safety - Right Hand     D-201216       Lock Tumbler Blank     D-300420	REMINGTON I.S.S. DEVICE MATERI           PART NAME         DRAWING NO.         MATERIAL           Safety - Right Hand         D-201212         MIM Iron 2% Ni           Lock Tumbler Blank         D-210222         MIM Iron 2% Ni           Lock Tumbler         C-109540         MIM Iron 2% Ni           Safety - Right Hand         D-201216         MIM Iron 2% Ni           Lock Tumbler Blank         D-300420         MPIF MIM-4605	REMINGTON I.S.S. DEVICE MATERIAL SPECIFICATIONS         PART NAME       DRAWING NO.       MATERIAL       HEAT TREATMENT         Safety - Right Hand       D-201212       MIM Iron 2% Ni       Carburize 0.7% C. Potential         Lock Tumbler Blank       D-210222       MIM Iron 2% Ni       None Specified         Lock Tumbler       C-109540       MIM Iron 2% Ni       Carburize 0.7% C. Potential         Safety - Right Hand       D-201216       MIM Iron 2% Ni       Carburize 0.7% C. Potential         Lock Tumbler Blank       D-300420       MPIF MIM-4605       Oil Quench & Temper							

NOTE: MIM Iron 2% Ni should be re-designated to the corresponding MPIF Standard: MPIF MIM-2200

 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 LS.S. tumbler and allowed the manipulation of the LS.S. plunger and timbler using a standard that blade screwdriver. In this manner, the remaining portion of the tumbler was easily rotated and the rifle allowed to be placed in the fire state, thus failing the test frigure 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 "J" channel and LS.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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ETRONX TEST RESULTS - 2 PAGES

APPENDIX A

Research and Development Technical Center Elizabethtown, Kentucky



ET47606

APPENDIX B Remington Arms Company, Inc. Research and Development Technical Center M/870 TEST RESULTS - 4 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 9/26/01 Record No: F\$D094 Via: UPS Test Date: 10/2/01 Returned Via: UPS Remington Customer Semple Manufacturer: Sample Dimensions Remington Body Height: Body Width: N/A in. Lock Type: N/A in. Internal Кеу Туре: N/A in. Key-Other Body Depth: 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 ist picking with use of paper clips (jumbo size), paper clips (#1 size), and small sc keyway fot two minutes each. es theat fit in t Combination locks shall resist manual manipulation for two minutes 83 Time Sample No. **Test Condition** Teol (Pass/Fall) (min.) x Firearm safety device tested with firearm. jumbo paper clip 2 Pass 2 1 Pass Firearm safety device tested without firearm. #1 paper clip 2 Pass 1.4 mm screwdrh (2) Forced Removal Inspection Ő. spect the firearm and firearms safety device to determine if the firearms safety device is of just a design that it may not be a the firearm through the partial destruction of the tingtm with stimpton household tools. Desuits Description/Explanation Sample No. с., (Pess/Fail) Fiream safety device does not appear that it may be disabled through the partial destruction of the finance with common helicehold tools. x 1 Firearm safety device appears that it may be disabled through the partial destruction of the firearm with common household tools. Paus 100 . ويتريخ خ (3) Tensile Test next davice tailiting a pulling action. Apply 225 pounds force slowly all resums setting davice locking components 100 39 effering or plying support to other the mating lociding compon nts of the firearms safety devi Results Sample No Test Condition Max. Load (lbf.) (Pase/Fail) 35 89 89 Firearm safety device tested with firearm. N/A Firearm safety device tested without firearm. N/A (4) Shock Test 닅 This i trearms sufety device and locking mechanism ability to willistand shock. Using the shock impact fature, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches two times to the top of 23R ice body aligned to topings and penstrate the locking keyway or combination lock using a ch Additionally, using the shock impact there a data 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 sta and they lies Results Sampie No. Test Condition Tool Orops (Pass/Fail) × Firearm safety device tested with firearm. biada 5 Pass Firearm safety device tested without firearm. 5 rođ Pass Page 1 of 2

> Marlin R. Jiranek, II Research Engin<del>ce</del>r

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ET47607

APPENDIX B M/870 TEST RESULTS – 4 PAGES Research and Development Technical Center Elizabethtown, Kentucky



ET47608

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 Via: Fed Ex Returned Via: UPS Customer: Remington Semple Sample Dimensions Manufacturer: Remington Body Height: N/A in. Body Width: Internal N/A in. Lock Type: N/A in. Key-Other Key Type: Body Depth: 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 Ibs. (1) Picking or Manipulating Test at picki Ig with use of paper cips (jumbo size), paper cips (\$1 size), and small sor keyway for two minutes each. a that fit in na in the S an locks shall resist manual manipulation for two minute Samola No Test Condition Tool (min,) (Pase/Fall) 3, 83 Not Firearm safety device tested with firearm. jumbo paper clip NA . 24 NA N/A Firearm safety device tested without frearm. #1 paper clip N/A 1.4 mm screwdry 22 (2) Forced Removal Inspection e eastely device to detormine if the finearms set sty device is of shirt is a design that it may not be deab the finearm through the partial destruction of the finearm with common household tools. ot the fireturn and tin ved fro Results 2 ጎዱንስ - ነር፤ የሚለማት Sample No. Description/Explanation (Pass/Fail) Firearm safety device does not appear that it may be disabled through the partial delituction of the fireant with common household tools. N/A Firearm safety device appears that it may be disabled through the partial destruction of N/A the firearm with common fiousehold tools. - 38 (3) Tensile Test зů,  $\hat{\mathbf{u}}_{i}$ This statistic device utilizing a pulling action. Apply 225 pounds force sto firefirms safety device looking components 150ng or giving support to either the mating locking components of the firearms easiety device Results 8 npie No. **Test Condition** Max. Load (ibf.) (Pass/Fail) Finanm 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 eaferly device and locking mechanism ability to withstand shock. Using the shock impact tidure, drop a 2.2 pound weight from a distance of one 39.4 inches + 0.4 inches five times to the top of body sligned to impinge and penatrate the looking keyway or combination lock using a chuck ed blade-type looi. Addit onally, using the shock impact titure, drop a 2.2 pound weight from a distance of 39.4 inches + 0.4 inches five times to the top of the freerms safety device body using a chucked ste rod too Results Sample No. Test Condition Drops Tool (Pass/Feil) Firearm safety device tested with firearm. blade N⁄A Firearm safety device tested without firearm. N/A rođ Page 1 of 2 Page 20 of 20 October 12, 2001 Marlin R. Jiranek, II CONFIDENTIAL Remington Project: 241315 Research Engineer

ET47609

APPENDIX B M/870 TEST RESULTS - 4 PAGES

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Research and Development Technical Center Elizabethtown, Kentucky





APPENDIX C M/597 TEST RESULTS - 2 PAGES Research and Development Technical Center Elizabethtown, Kentucky



APPENDIX D Remington Arms Company, Inc. Rescarch and Development Technical Center M/710 TEST RESULTS - 2 PAGES Elizabethtown, Kentucky UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary Date Received: 10/3/01 Record No: FSD096 10/3/01 Via: Fed Ex Test Date: Returned Vie: UPS Customer: Remington Semple Manufacturer: Sample Dimensions N/A in. Reminaton **Body Height:** Lock Type: Body Width: N/A in. Internal Key Type: Body Depth: N/A in. Key-Other N/A in. Model: Shackle/Cable Diameter: 710 N/A In. Serial/Lot: N/A Shackle/Cable Length: Test Spec.: N/A lbs. California Title 11, Div. 1, Ch. 12.6 Weight: (1) Picking or Manipulating Test at picking with use of paper slips (jumbo size), paper slipe (#1 size), a that fit in knowsy for two minutes each. m tooks what readst manual manipulation for two minutes Time Result 83 Sample No. **Test Condition** Tool (Pass/Fab) (min. X Firearm safety device tested with firearm. iumbo paper clip 2 Pasa 2 1 Pass Firearm safety device tested without firearm. #1 paper clip 1.4 mm screwditys 2 Pass (2) Forced Removal Inspection 1 initiat it may the fream and freams salety device to determine if the freems sal lety device is of such a d the Grearm through the partial destruction of the fir n household to Results Sample No Description/Exclanation 26 (Pass/Fail) destruction of the freem with common higher old tools Firearm safety device does not appear that it may be disabled that X Fiream safety device appears that it may be disabled through the partial destruction of the fireatly with common household tools. 2 Pass (3) Tensile Test 4**7** (8 The firearm earlety device difficing a pulling action. Apply 225 pounds force slowly along the central cale of the theorem, adjust device locking components giving support to earlier the mating locking components of the firearms safety device. inal the 5 Sample No. **Test Condition** Max, Load (lbf.) (Pass/Fail) 18 Fisearm safety device tested with frearm. N/A N/A Firearm safety device tested without firearm. (4) Shock Test н Insums safety device and locking mechanism ability to withstand shock. Using the shock impact fature, drop a 2.2 pound weight from a distance of one 19.4 inches + 0.4 inches five times to the top of 114 dy aligned to implaye and penetrate the locking keyway or combination facts where a ch Banally, using the shock impact fature, drop a 2.2 pound weight from a distance of Ade 39.4 inches + 0.4 inches five times to the top of the firearms safely device body using a chucked at i rod tea Results Sample No. Test Condition Tool Drops (Pass/Fail) х Firearm safety device tested with firearm. blade 5 Pass 2 Firearm safety device tested without firearm. rod N⁄A Page 1 of 2

> Marlin R. Jiranek, II Research Engineer

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APPENDIX D M/710 TEST RESULTS – 2 PAGES Research and Development Technical Center Elizabethtown, Kentucky



	Remington Arms Company, Inc.       APPENDIX E       Marce Descendent and Development Technical Cent Development Techniter Cent Development Technical Cent Developmen	ar y 83
	<ul> <li>Init the Quality perior handle of the biordiory does not certify or endorse this prodicit. USTL emphasizes that Freem Safety Devices have limitations and note that this study device can be defeated through the utilization of the energy and book. USTL is not liable for any injury, death or property damage as a result of the use or mission of this product.</li> <li>A copy of the test report and one semple has been forwarded to the California Department of Justice as required. Unlied States Test Laboratory has also retained one sample for its archive.</li> <li>Should you have any questions, please feel free to contact us.</li> <li>Sincerelly.</li> <li>Sincerelly.</li> <li>Attachment: California Compliance Test Report.</li> </ul>	
•.	Marlin R. Jiranek, II Page 26 of 26 October 12, 20 Research Engineer CONFIDENTIAL Remington Project: 2413	01 15

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	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 Laboratory	<b>5</b> 3
	Address: 3448 N. Emporta	
	Wichita, KS 67219	
	Name and Telephone Number of the DOJ-Certified Laboratory stuff person to be contacted regarding	
	Richard W. Mouser, 316-832-1600	
	Date of Test: 10/2/01 Time of Test: 1000-1200	
	Location(s) of Test/including any off-site focations:	
ين موري موري	Name(s) and Title(s) of Jaboratory staff who conducted and/or performed the required testing: B. Amold, G. Neyman and R. Mouser	
	Name(s) and business affiliations of all persons who have wimensed any part of the testing	
1995 (1955 (1957) (19	procedure: Dale Danner and Marlin Jiranek, II of Remington Arms Company	
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۲	Remington Arms Company, Inc. APPENDIX E M/700 TEST RESULTS – 7 PAGES	nd Development Technical Center Elizabethtown, Kentucky
	FD 033 (Rev. 3-01)  FIREARMS SAFETY DEVICE MODEL INFORMATION:  Firearms Safety Device Type (check one): External: Internal:X  Make: Remington  Model: Model: Construction Material(s) (e.g., steel, alloy, etc.): Steel  Tested on which firearm(s)  Type: Handgun: RevolverPiatol Longgun: ShotgunRifeX  Other:  Firearms Make(s) and Model(s): Remington Model <sup>®</sup> .700  Callber(s): _22-250, 270  PRIME D CASE INFORMATION  Primed Case Used: Manufacturer: N/A  Primer: N/A  X No primed case was used. (Winen firearms safety device is property in	_Integrat:
	Marlin R. Jiranek, II Research Engineer Page 28 of 28 CONFIDENTIAL	October 12, 2001 Remington Project: 241315

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	FIREARMS SAF	ETY DEVICE MANUFACTURER OR D		
	Address: <u>870 Remington Dr</u> Country: USA	, Madison, NC 27025		
	Contact Person: Dale Da	nnerF	Phone Number: <u>270-769-7628</u>	
, ,	The four firearms safety devi Chapter 12.6, Division 1, Title firearms safety device passer	TEST RESULTS ces have passed the test as defined in a 11, California Code of Regulations. V d a specific test. If a test was not applied	Regulations Section 977.45, Vith a check mark, indicate that the cable, indicate so with N/A	83
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	•		a <b>a</b> n an	
•	COMPLIANCE TEST R LABORATORY REFER FD 033 (Rev. 3-01)	EPORT ENCE NUMBER: <u>FSD093</u>	Page 4	
	The tested firearms safe Division 1, Title 11, Cali	Firearms Safety Device Standards sty device meets the standards in Regulation S formia Code of Regulations.	ection 977.44, Chapter 12.6,	
	(a) The firearms safety utilizing a key, combinat access only authorized	device is of a design that will not allow its removi tion, or other unique method as intended by the users. ( Please indicate locking system)	val or deactivation except by manufacturer to allow	
	(1) If a combinat consisting of a m	ion locking system, there are a minimum of 1,0 inimum of three numbers, letters, or symbols p	00 possible combinations er combination.	.4
	<u>X</u> (2) if a key lockir firearms safety d	ng system, the key locking system shall be uniq levice(s)).	ue to the manufacturer's'	83
	(3) Other:	davice renders the firearm incontrable (unable to	fire) while the firearms	an de antes
	safety device is properly	vinstalled.	o tologia indicate all anolicable	
	( c)The firearms safety dev methods): (1) By block	ing travel of the trigger, striker, firing pin, or harmon		
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	(d) The firearms safety dev	rice is capable of repeated use.		
<del></del>	/ declare under penalty	of perjury according to the laws of the State in v	which this report was true and complete	
	Signature:	and mouse		
	Name/Titlo (Printed):	Richard W. Mouser, President		
	Date: 10-3-01	-		
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	Marlin R. Jiranek, Il Research Engineer	Page 30 of 30 CONFIDENTIAL	October 12, 2001 Remington Project: 241315	

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		Sample Menufacturer: Lock Type: Key Type: Model: Serial/Lot: Test Spec.:	Remington Internal Key-Other 700 N/A California Title 11	, Div. 1, Ch. 126	Sample Dimen Body Height Body Width: Body Depth: Shackle/Cable I Shackle/Cable I Weight:	elone Diameter: Longth:	N/A (n. N/A (n. N/A (n. N/A (n. N/A (bs.	·	
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ین مرکز بر میر بر میر بر میر		Sample No.	Fires	Test Condition m safety device teste safety device tested	d with finarm. without firearm.	Max. Lo	ed (ibf.)	Rusuits (Pess/Feil) N/A	
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		Semole			Sample Dimens	lons		·		
		Manufacturer:	Remington		Body Height:	N	VAIn.			
		Кеу Туре:	Key-Other		Body Depth:	N	/A in			
		Model: Social® at	700		Shacide/Cable D	izmeter: N	/Ain.			
		Test Spec.:	California Title 11, Dr	v. 1, Ch. 12.6	Weight:	angar: N	/AB.			
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		Sample No.	Com	<u>pination locks shall /</u> Fast Condition	resist menual munipulat	ton for two minutes. Tool	Time	Results	1	
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APPENDIX E M/700 TEST RESULTS – 7 PAGES

Research and Development Technical Center Elizabethtown, Kentucky



#### ET47622

APPENDIX F Remington Arms Company, Inc. Research and Development Technical Center LETTER FROM TEST LAB TO CA DOJ - 3 PAGES Elizabethtown, Kentucky United States Test Laboratory 316-832-1600 3448 N. Emporia 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 Fircarm Safety Device Test of Remington, Models: 870, 700 EtronX, 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 1/2" screwdriver subsequent to being impacted with 5 drops from a chucked blade-type tool (model 700 Etrony) and chucked steel rod tool (model 597). During the Plug Torque Test of model 100 EtronX the tecking mechanism disengaged while attempting to obtain a torque load of 89 m/bs. 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 出統約 Safety Device performed. Sincerely, lon. Kal Branden M. Arnold Lab Technician Page 33 of 33 Marlin R. Jiranek, II October 12, 2001 CONFIDENTIAL Remington Project: 241315 **Research Engineer** 

Remington Arms Company, Inc. APPENDIX F Research and Development Technical Center LETTER FROM TEST LAB TO CA DOJ - 3 PAGES Elizabethtown, Kentucky United States Test 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. 83 ₩. Enclosed you will find a Finearms Safety Device (Remington Model 700 Rifle) that has suffessfully completed testing at our laboratory. In the accompanying reporting form provided by your agency you see the test that have been performed by USTL on this particular Finearms Safety Device. If after your inspection you find other test that could or should have been performed, please fit us know. ŝ, In addition to the rifle enclosed, you will find part of the best assembly that includes the FSD locking assembly. For information purposes, the enclosed assembly is made of stainless specifivith a carbon steel lock assembly, where the assembly in the rifle is carbon steel with a carbon steel fold 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 of concerns please contact us. The make/model tested was ි. Remineton Model 700 center fire rifles If we can be of any assistance, please let us know. Sincerely, mouse Richard W. Mouser i konst President Cc: Remington Arms Co. Marlin R. Jiranek, II Page 34 of 34 October 12, 2001 CONFIDENTIAL **Research Engineer** Remington Project: 241315

# APPENDIX F

LETTER FROM TEST LAB TO CA DOJ - 3 PAGES Elizabethtown, Kentucky 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. Marlin R. Jiranek, II Page 35 of 35 October 12, 2001 CONFIDENTIAL Research Engineer Remington Project: 241315

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FAX NO:       270-737-9376       PHONE NO:         FROM:       NAME:       Staven Testare         OFFICE:       Firearma Division         LOGATION:       P.O. Box 100487, Sacramento, CA 95516-0487         FAX NO:       910-885-0678         PHONE NO:       910-263-0849         IMESSAGE/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 should be returned via small. Please email your request, or completed spreadsheets to ateven.testers@doj.ca.gov.         Thank you!       1	FAX NO:       270-737-9876       PHONE NO:         FROM:       NAME:       Staven Testars         OFFICE:       Firearma Division         I.OQATION:       P.O. Box 100487, Sacramento, CA 95816-0487         FAX NO:       318-803-0676         PHONE NO:       1018-283-0649         MESSAGE/INSTRUCTIONS         Dear Mr. Damner:         When completing the Department of Justice Firearms Safety Device Listing Request, H you docide 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 email your request or completed spreadsheets to steven testers Gold. Please email your request or completed spreadsheets to steven testers Gold. The SenDER         PLEASE DELIVER AS SOON AS POSSIBLEI FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER	FX. NO:       270-737-9578       PHONE NO:         FROM:       NAME:       Brown Testara         OFFICE:       Figurama Division:       DOMAGE, Sacramenite, CA State-Guar         DOMICO:       P.O. Box 100487, Bacramenite, CA State-Guar         FAX. NO:       100-805-0878       PHONE NO:         MEESAGE/INSTRUCTIONS       NEESAGE/INSTRUCTIONS         Market Bacrament       MEESAGE/INSTRUCTIONS         Market Bacrament       Office:         MEESAGE/INSTRUCTIONS       State S		LOCATION:			
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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 spreadshest template. The template will be provided to you upon request, and the completed spreadshest should be returned via email. Please email your request or completed spreadshests to steven.teeters@doj.ca.gov. Thank you!	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.gav. Thank you! PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER	When completing the Department of Justice Finarms Safety Device Listing Request, if you decide to provide a list of finarms 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 email your request or completed spreadsheets to steven testers @doj.ca.gov. Thank you! PLEASE DELIVER AS BOON AS POSSIBLE! FOR ABSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER Main P. limet II. Place 36 of 36 Deter 12 2001	موقع : موقع :	Dear Mr. De	ner:		
Thank you!	Thank you! PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER	Thank you!         PLEASE DELIVER AS SOON AS POSSIBLE!         FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER         Maxin B, limpsk II         Page 36 of 36         October 12, 2001		When compl Request, if y properly ina Excel sprea and the com request or c	sting the Department of Justice Firearm ou decide to provide a list of firearms tailed and used with, the list must be a isheet template. The template will be p plated spreadsheet should be returned omplated spreadsheets to steven.tester	ns Safely Device Listing that your device can be ubmitted using a standardized provided to you upon request, via email. Please email your rs@doj.ca.gov.	
	PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER	PLEASE DELIVER AS SOON AS POSSIBLE! FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER	, erdåret.	Thank you!	•	ł	
FOR ASSISTANCE WITH THIS FAX, PLEASE CALL THE SENDER		Martin R. Jianek II. Page 36 of 36 October 12 2001			PLEASE DELIVER AS SOON AS FOR ASSISTANCE WITH THIS FAX, PLEAS	PÓSSIBLEI E CALL THE SENDER	
<u> </u>		Marlin R. Jiranek II Page 36 of 36 October 12 2001		<u> </u>			
		Marlin R. Liranek, II. Page 36 of 36 October 12 2001					
		Research Engineer CONFIDENTIAL Remington Project: 241315				Ostaber 12 2001	

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APPENDIX G FAX FROM CA DOJ - 3 PAGES

Research and Development Technical Center Elizabethtown, Kentucky



APPENDIX G FAX FROM CA DOJ – 3 PAGES Research and Development Technical Center Elizabethtown, Kentucky





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	States
	Trist Test
/ _	Confidential
7449 NL E	
Wichita, K	IS. 67219 Fax 316-832-1602 October 3, 2001
	Remington Arms Company
i	870 Remington Dr.
:	Madison, NC 27025
	Dear Mr. Danner:
	As previous secure to United States Test ( sharetes: (UST)) conducted Figure Sofety Davies
	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
	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 de 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 Fifearm Safety Devices have imitations and note that any such device can be
	property damage as a result of the use or misuse of this product.
افت.	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
	Shall we have any questions, places feel from to contact us
	Should you have any questions, please leer nee to contact us.
	Sincerely
· 大教授的教育的公式	
	L'h mouser -
	Chemine III out
	Richard Mouser
	President
	Attachment: California Compliance Test Report
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		CALIFORNI FIR COM	A DEPAR EARMS SA MPLIANCE FD 033 (I	TMENT OF AFETY DEVIC TEST REPOI Rev. 3-01)	E E RT		
i i t t	The Certified Sections12088 s submitting t Title 11, Calif the named fire the space prov	Firearms Safety Device Labo B and Regulation Section 977. his Compliance Test Report a fornia Code of Regulations. T arms safety device model, not rided on each page of this Rep	ratory identifi 45, Chapter I as required by he reference n t to the labora port.	ed below has con 2.6, Division 1, Regulation Sect umber/identifier tory in general.	npleted testing requi Title 11, California ion 977.46, Chapter should refer specific The number /identifi	ired by Penal Code Code of Regulation r 12.6, Division 1, cally to the testing of ther must be noted in	s
			Laboratory	Information			
						;	4 
I	Laboratory Re	eference Number/Identifier	FSD093		Date Submitted:	10/3/01	
(	Certified Firea	rms Safety Device Laborator	ÿ	United States	Test Laboratory		83
Ł	Address:	3448 N. Emporia					<u></u>
		Wichita, KS 67219		series and the series of the s		<u></u>	
t	Name and Tele his report:	ephone Number of the DOJ-	ertified Labo	ratory staff pers	in to be contacted re	egarding	
<u>-</u> I	Richard W. M	ouser. 316-832-1600		,,,,,,,,,	Time of Test:	1000-1200	
- 1997 -	bcation(s) of	Test, including any off-site k	ocations:	USTL			
and the second s	Name(s) and T	Fitle(s) of laboratory staff who	o conducted a	nd/or performed	the required testing:		
<u>+</u>	B. Amold, D.	Newman and K. Mouser					
	Name(s) and b procedure:	ousiness affiliations of all pers	ons who have	witnessed any p	part of the testing		
Ī	Dale Danner a	nd Marlin Jiranek, II of Rem	ngton Arms (	ompany		······································	
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					- <b>**</b>	
COMPLIAN LABORATO FD 033 (Rev. 3	CE TEST REPORT ORY REFERENCE NU 3-01)	MBER:	FSD093	-		Page 2
	FIREARMS	SAFETY DEVI		NFORMATION	l:	
Firearms Safe	ety Device Type (check	one): External:		Internal: X	Integral:	
Make: <u>R</u>	emington					
Model:	700					
Construction	n Material(s) (e.g., ste	el, alloy, etc.):	Steel			
Tested on w	hich firearm(s)					83
	ype: Handgun: Longgun: Other:	Revolver _ Shotgun _	Pistol			े <b>ग</b> र्दे 
Firearms Mal	ke(s) and Model(s)	Barrel Length(s	): <u>26", 2</u>	2"		
		PRIMED CASE	INFORMATI	ON	·	
Primed Case	e Used: Manufac Primer:	turer:	N/A			
X N incapable of	o primed case was us faccepting cartridges)	ed. ( <i>When firea</i> i	rms safety de	vice is properly	∕ installed, fire	earm is
	· · · · · · · · · · · · · · · · · · ·					

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FIREARDS SAFETY DEVICE MANUFACTURER OR DEALER INFORMATION         Firearms Safety Device Submitted by:       Remington Arms Company         Address:       870 Remington Dr., Madison, NC 27025         Country:       USA         Contact Person:       Date Danner         Phone Number:       270-769-7628         Contact Person:       Date Danner         Phone Number:       270-769-7628         Contact Person:       Date Danner         Contact Person:       Date Danner         Contact Person:       Date Danner         Contact Person:       Date Danner         Contact Person:       Date Date Date         Contact Person:       Date Date         Date Date Date       Date Date Date         Date Date Date       Date Date Date	COMPLI LABORA FD 033 (R	ANCE TES NTORY REF ev. 3-01)	T REPORT ERENCE NUMBER:	FSD093		Page 3	
Address:       870 Remington Dr., Madison, NC 27025         Country:       USA         Contact Person:       Dale Danner         Phone Number:       270.769-7628         Contact Person:       Dale Danner         Phone Number:       270.769-7628         Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, indicate that the frearms safety device passed a specific test. If a test was not applicable indicate so with NA.	Firearms	FIREAR	MS SAFETY DEVICE	MANUFACTURER C	PR DEALER INFO		
Country:       List         Contact Persor:       Del Danner         Phone Number:       270.769-7628         Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, findicate that the firearms safety device passed a specific test. If a test was not applicable, indicate so with N/A.       37         Image: Contact Person:       Image: Contact Person:       1         Image: Contact Person:       Image: Contact Person:       37         The four firearms safety devices have passed the test as defined in Regulations Section 977.45       36         Chapter 12.6, Division 1, Title 11, California Code of Regulations. With a check mark, findicate that the firearms safety device passed a specific test. If a test was not applicable, indicate so with N/A.       37         Image: Contact Person:       Image: Contact Person:       1         Image: Contact Person:       Image: Contact Person:       1         Image: Contact Person:       1       1       1         Image: Contact Person:       1       1       1       1         Image: Contact Person:       1       1       1       1       1         Image: Contact Person:       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th>Address</th> <th>870 Remi</th> <th>ngton Dr., Madison, N</th> <th>IC 27025</th> <th></th> <th></th> <th></th>	Address	870 Remi	ngton Dr., Madison, N	IC 27025			
Contact Persons       Deltament       2.3         State for the fore state of the verso is the verso is the verso is a specific verso if a verso is a specific verso if a verso is a verso ve	Country:	USA					
firearms 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 <u>N/A</u> (3) Tensile test X (4) Shock test <u>N/A</u> (5) Shackle or cable cutting test <u>X</u> (6) Plug pulling test <u>X'</u> (7) Plug torque test <u>X</u> (8) Sawing test <u>N/A</u> (9) Drop test * See attached report.	Contact	Person: firearms sa	Dale Danner	TEST RESULTS	Phone Numbe	r: <u>270-769-7628</u> Section 977 45 nark indicate that the	3 11 <sup>201</sup>
<ul> <li></li></ul>	firearms	safety devic	ce passed a specific te	est. If a test was not a	pplicable, indicate	e so with NA.	
X (2) Forced removal inspection N/A (3) Tensile test X (4) Shock test N/A (5) Shadkle of cable cutting test A (6) Plug pulling test X (7) Plug torque test X (8) Sawing test N/A (9) Drop test * See attached report.	х	(1) Pickin	g or manipulation test				
$ \underbrace{X}_{M/A} (5) \text{ Shackle or cable cutting test} $ $ \underbrace{X^*}_{M/A} (7) \text{ Plug pulling test} $ $ \underbrace{X^*}_{X} (8) \text{ Sawing test} $ $ \underbrace{N/A}_{Y/A} (9) \text{ Drop test} $ * See attached report.	X	_(2) Forceo _(3) Tensilo	l removal inspection				
(6) Plug pulling test X* (7) Plug torque test X (8) Sawing test N/A (9) Drop test * See attached report.	X N/A	_(4) Shock (5) Shack	test le or cable cutting test	t			
X* (7) Plug torque test X (8) Sawing test N/A (9) Drop test * See attached report.	<u> </u>	_(6) Plug p	ulling test		·		
X (8) Sawing test N/A (9) Drop test * See attached report.		ecen _(7) Plug to	orque test				
N/A (9) Drop test * See attached report.	X	(8) Sawin	g test				
* See attached report.	N/A	(9) Dron +	- act				
* See attached report.			031				
	* See att	ached repoi	t.				
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COMPLIANCE TI	EST REPORT	Page 4			
LABORATORY R	EFERENCE NUMBER: FSD093	_			
FD 033 (Rev. 3-01)					
	Firearms Safety Device Sta	ndards			
The tested firearr Division 1, Title 1	ns safety device meets the standards in Reg 1, California Code of Regulations.	gulation Section 977.44, Chapter 12.6,			
(a) The firearms s utilizing a key, co access only autho	afety device is of a design that will not allow nbination, or other unique method as intend prized users. ( Please indicate locking syster	v its removal or deactivation except by led by the manufacturer to allow m)			
(1) If a cor	nhination locking system, there are a minimu	um of 1 000 possible combinations			
(1) in a consisting	of a minimum of three numbers, letters, or s	symbols per combination.			
X (2) If a key	locking system, the key locking system sha	all be unique to the manufacturers'			
	arely device(s)).				
(3) Other:					
(b) The firearms s	afety device renders the firearm inoperable	(unable to fire) while the firearms			
safety device is p	operly installed.				
( c)The firearms sat	ety device functions by at least one of the following	ng methods (please indicate all applicable			
	- blocking trained of the higgs striker tring and	n hommor			
<u>(1) B</u>	y blocking leaver of the migger, striker, ming prin, c	binantiler.			
(2) B	v preventing the action of cylinder and closing.	olding a cartridge			
(3); <u>;</u> ;	preventing access to the firearm	biding a carriage.			
(d) The firearms sat	ety device is capable of repeated use.				
X The tested	levice meets all of the above standards.				
l declare under pe	nalty of perjury according to the laws of the	State in which this report was			
executed that all s	tatements made in this report and Attachme	ent A are true and complete.			
C:	no ism				
	Cake & Mouse	······································			
Name/Title (Print	ed): Richard W. Mouser, President				
Date: 10-3-01					
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-					
• • •	UNITED STAT	CO IEOI LA	DURATURT		
--	---	--	--	--	---
	Firearm Safe	ty Device Tes	<u>t Summary</u>		
Date Received	: 9/26/01	Record No:	FSD093	• •	
lia:	UPS	Test Date:	10/2/01		
Returned Via:	UPS	Customer:	Remington		
Sample		Sample Dimens	lions		
Manufacturer:	Remington	Body Height:	N/A	l in.	
Lock Type:	Internal	Body Width:	N/A	l in.	
Key Type:	Key-Other	Body Depth:	N/A	Lin.	
<b>Vodel</b> :	700	Shackle/Cable [	Diameter: N/A	۱ in.	
Serial/Lot:	N/A	Shackle/Cable L	ength: N/A	Vin.	
Test Spec.:	California Title 11, Div. 1, Ch. 12.6	Weight:	N/A	lbs.	
	(1) Picking	or Manipulat	ing Test		
Cylinders in the fire	earms safety device shall resist picking with use keyw:	of paper clips (jumbo s av for two minutes eac	tize), paper clips (#1 size), an h	id small screw	drivers that fit in the
	Combination locks shall	resist manual manipula	ition for two minutes.		9
Sample No.	Test Condition		Tool	Time	(Pass/Fail) 83
	X Firearm safety device test	ted with firearm.	jumbo paper clip	2	Pass 🦷
1	Firearm safety device tested	d without firearm.	#1 paper clip	2	Pass
			1.4 mm screwdriver	2.	Pass
			and Sin Sin	1 789 2	
inspect the firearm	(2) Forced and firearms safety device to determine if the fir the firearm through the partial des	I Removal Ins	Dection of such a design that it may with common household tools	not be disable	d or removed from
Sample No.	(2) Forced and firearms safety device to determine if the fi the firearm through the partial des Des	I Removal Ins rearms safety device is suction of the freatm scription/Explanation	Dection sof such a design that it may with common household tools	not be disable	d or removed from Results (Pass/Fail)
Sample No.	(2) Forced and firearms safety device to determine if the fir the firearm through the partial des Des X Firearm safety device does destruction of it	I Removal Ins rearms safety device is success of the free into scription (Explanation not appear that it in the fireerin with com	Dection sof such a design that it may with common household tools hay be disabled through the mon household tools.	not be disable he partial	d or removed from Results (Pass/Fail)
Sample No.	(2) Forced and firearms safety device to determine if the fir the firearm through the partial des Des X Firearm safety device does destruction of the Firearm safety thevice appears the firea	I Removal Ins reams safety device a suction of the firearm scription/Explanation not appear that it's he firearm with com strat it may be disa irm with common he	Dection of such a design that it may with common household tools hay be disabled through the mon household tools. bled through the partial do busehold tools.	not be disable he partial estruction of	d or removed from Results (Pass/Fail) Pass
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Sample No.	(2) Forced and firearms safety device to determine if the fir the firearm through the partial des Des X Firearm safety device does destruction of the Firearm safety tevice appears the firea d to test the strength of the firearm safety device	I Removal Ins rearms safety device is success of the fream of scription/Explanation not appliar that it in the firegrin with com that it may be disal irm with common ho <u>Tensile Test</u> a utilizing a putting action	Dection sof such a design that it may with common household tools hay be disabled through the mon household tools. bled through the partial de busehold tools.	not be disable he partial estruction of kowly along the	d or removed from Results (Pass/Fail) Pass
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			20093	
This fast in desir	(5) Shackle or Cable Cutt	ing Test	<b>n</b>	
	forces of 100 pounds force for ca	ibles.		
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Rase/Eail)
	Firearm safety device tested with firearm.			(7 d3a)1 dij7
N/A	Firearm safety device tested without firearm.	-	-	N/A
This test is design	(6) Plug Pulling 18: ad to test a cylinder lock's shilly to withstand a cyling action to distance	<u>St</u> the objections the entired of a fi	Neill the Louise	with a number 20
	diameter drill bit and insert a self tapping screw of size diameter drill bit and insert a self tapping screw of size deep. Apply a required tension of 225 pounds force axially bet	AB12 at least 0.75 inches ween the case and installed s	unii the keyway Icrew.	with a number 20
Sample No.	Test Condition	Max. Load (It	of.)	Results (Parc/Foil)
	X Firearm safety device tested with firearm.	1		<u></u>
2	Firearm safety device tested without firearm.	-		Pass
		·····	(§).	
<b></b>	(7) Plug Torque Tes	et 🦽	## 5	<u>्रि</u> ृष्टि
inis test is design largest flat blad	ed to test the ability of a firearms safety device's keyway, if so equipped le (not to exceed 5/8 inch) that will fit into the keyway. so that a targue l	, to withstand torque pressure oad of 69 pounds infestinche	es. Insert a scr a can be anot	ewanter with the
Sample No.	Test Condition	Max. Load (lbs	(in.)	Results
		1997 - 1997 -		(Pass/Fail)
	<b>X</b> Firearm safety device tested with firearm <i>d</i>	"我的你说,你们是你们的问题,你们不知道。"	<u>88</u> 2	ſ
3	X Firearm safety device tested with firearm.		*8>	Pass
3	Firearm safety device tested with firearm.     Firearm safety device tested without firearm.			Pass
3	X Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     (8) Saving Test			Pass
3 he testing agent s	K     Firearm safety device tested with firearm     Firearm safety device tested without firearm.     (B) Savering Test     (B) Savering Test     hall accomplish a test using a standard carbon steel hacksaw blace with     ten petinds. The test shall consist of 120 cycles, with     One cutting cycle is defined as the combination of one 6-inch forward	32 teeeth per inch with a con no fime limit, by hand. and one 6-inch backward cut	nstant vertical o	Pass kownward force of
3 he testing agent sl Sample No.	K Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     (B) Sawing Test hall accomplish a test using a standard carbon steel hacksaw blade with     ten paulids. The test shall consist of 120 cycles, with     One cutting cycle is defined as the combination of one 6-inch forward     Test Condition	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles	istant vertical o	Pass lownward force of Results
3 he testing agent si Sample No.	K Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     (8) Saving Test hall accomplish a test using a standard carbon steel hackaaw blade with     ten petinds. The test shall consist of 120 cycles, with     One cutting cycle is defined as the combination of one 6-inch forward     (Fitearm safety device tested with firearm.	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles	istant vertical of	Pass downward force of Results (Pass/Fail)
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3 he testing agent sl Sample No.	X Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     (8) Saving Test hall accomplish a test using a standard carbon steel hackaaw blade with     ten petinds. The test shall consist of 120 cycles, with     One cutting cycle is defined as the combination of one 6-inch forward     (Fitearm safety device tested with firearm.     Fitearm safety device tested without firearm.	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles 120	istant vertical o	Pass downward force of Results (Pass/Fail) Pass
3 he testing agent sl Sample No.	X       Firearm safety device tested with firearm.         Firearm safety device tested without firearm.         B       Sawing Test         hall accomplish a test using a standard carbon steel hacksaw blade with ten set using a standard carbon steel hacksaw blade with ten set using a standard carbon steel hacksaw blade with ten set using a standard carbon of one 6-inch forward is the stall consist of 120 cycles, with One cutting cycle is defined as the combination of one 6-inch forward is the stall consist of the stall constall constalle constalle consist of the stall consist of the stall	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles 120	istant vertical of	Pass townward force of Results (Pass/Fail) Pass
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3 he testing agent st Sample No.	X Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     (8) Saving Test     (8) Saving Test     (9) Saving Test     (10) Saving T	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles 120 box type devices. box type devices.	directly up.	Pass downward force of Results (Pass/Fail) Pass Results (Pass/Fail) N/A N/A
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3 Sample No. Sample No. Sample No. Sample No. N/A N/A MARKS/NOTE (/7) Test could reams Used: R : E65081XX (27 imple Description is test was pe ecification reo	X       Firearm safety device tested with firearm.         Firearm safety device tested without firearm.         B       Sawring Test         hall accomplish a test using a standard carbon steel hacksaw blade with ten pounds. The test shall consist of 120 cycles, with         One cutting cycle is defined as the combination of one 6-inch forward in erfest Condition         X       Fitearm safety device tested with firearm.         Fitearm safety device tested without firearm         Fitearm safety device tested without firearm         Sections (C) thru (F) do not apply to lock-         (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (E) On either side with the barrel horizontal/With the barrel (E) On either side with the barrel horizontal horizon the rear (E) On either side with the barrel horizon the rear (C) Z* barrel).         Sectored due to size and hardness of cylinder materia emington, model 700, #1: E66794XX (22-250; 26" barrel), #2: 70; 22" barrel).         mond firemal locking mechanism consisting of a cylinder lock at promed in accordance with the quirements and the results property	32 teeeth per inch with a con no time limit, by hand. and one 6-inch backward cut Cycles 120 box type devices. box type	ting motion. ting motion. directly up. ly down. n. rei),	Pass lownward force of Results (Pass/Fail) Pass Results (Pass/Fail) N/A N/A N/A N/A N/A N/A N/A N/A

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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/Markeding). Please let me know if you have any problems with the verbiage of other recommendations if this is not satisfactory. Thank you for your time and efforts. Sincerely, Martin R. Jiranek a) Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal b) New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfire offee equipped with the Remington Integrated Security System (ISS), patient number 6,240,67081, function property without an additional firearms safety device. To Identify a Remington Model 700 and Model Seven centerfire offee equipped with the firearm bolt.  Marting R. Jiranek Naring R. Jiranek Narin	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, Martin R. Jiranek a. Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal b. New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfire tifles equipped with the Remington a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt. Martingk. Jgranek, II Remington 200 Wartingk Jgranek, II Remingt	From: Sent: To: Subject:		Jiranek, Marlin R. Wednesday, November 14 'steven.teeters@doj.ca.go Updated Wording for the F	, 2001 4:31 PM v' irearms Safety Device V	Vebsite	
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, Martin R. Jiranek a) Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal b) New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfine fifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function projectly without an additional firearms safety device. To lentity a Remington Model 700 or Model Seven centerfine fifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms of a locking cylinder with a J-shaped keyway protruding from the left site of the rear portion of the firearm bolt. Martingk. Jipanek, II Remington Arms Company, Inc. Kesearche: Development Jeelinical Center 315 We Ring Koad Elizabethowin, Kentucky 42701 (270) 763-7635 Phone (270) 737-9576 FAX Please hote my new e-mail address: jiranekmr@remington.com	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/Markelng). Please let me know if you have any problems with the volume of the recommendations if this is not satisfactory. Thank you for your time and efforts.	Steven,					
Sincerely, Marlin R. Jiranek a) Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal b) New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfire titles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function properly withrout 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. Marling Jiranek, II Remington Arms Company: Inc. Researche Development Settincal Center 315 West Ring Road Elizabetusen, Knucky 42701 (270) 769-7645 Phone (270) 737-9576 FAX Please note my new e-mail address: jiranekmr@remington.com	Sincerely, Martin R. Jiranek a. Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington integrated Security System (ISS) Internal b. New paragraph: Martingtated Security System (ISS), patent number 6,240,670B1, function property without an additional filtearms safety device. To Identify a Remington Model 700 and Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional filtearms safety device. To Identify a Remington Model 700 or Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional filtearms safety device. To Identify a Remington Model 700 or Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional filtearms safety device. To Identify a Remington Model 700 or Model Seven center fils wells of the rear portion of the firearm bolt. Martingk. Jipanek, II Remington Arms Company, Inc. Researchek Development Featinical Center SIS Well Ring Road Elizabethown, Kentucky 42701 (270) 769-7645 Phone (270) 739-7645 Phone (270) 739-7645 Phone (270) 739-7645 Phone (270) 739-7645 Phone (270) 739-7645 Phone (270) 749-7645 Phone	These are the through the p verbiage or o	e recommend roper channe ther recomme	ed changes to what is currer Is at Remington (Legal/Mark andations if this is not satisfa	ntly posted on the DOJ w eting). Please let me kn ctory. Thank you for you	vebsite document. T ow if you have any p ur time and efforts.	These have been problems with the
Marlin R. Jiranek a) Recommend that the BOLD title changes: FROM: Remington 700 Internal O: Remington Integrated Security System (ISS) Internal b) New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfire fifles 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 centerfire fifles 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 centerfire fifles 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 centerfire fifles 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 center file 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.  Marlingk. Jyranek, II Remington Arms Company, Inc. Researche Development Jealincal Center 315 Wert Ring Road Elizabethoten, Kennucky 42701 (270) 769-7645 Phone (270) 737-9576 FAX Please hole my new e-mail address: jiranekmr@remington.com	Marlin R. Jiranek a) Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal 0) New paragraph: Manufacturer states that Remington Model 700 and Model Saven centerfire fifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms safety device. To Identify a Remington Model 700 on Model Saven centerfire fifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms safety device. To Identify a Remington Model 700 or Model Saven rolls which has an ISS device installed, look f a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt. Martings. Jranek, II Remington Arms Company, Inc. Researche Development Additical Center 315 Weit Ring Noad Elizabethatwin, Kentucky 42701 (270) 737-9576 FAS Peace bote my new e-mail address: jiranekmr@remington.com	Sincerely,					
a) Recommend that the BOLD title changes: FROM: Remington 700 Internal TO: Remington Integrated Security System (ISS) Internal 0. New paragraph: Manufacturer states that Remington Model 700 and Model Seven centerfire offes equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms safety device. To Identify a Remington Model 700 or Model Seven ritle 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. Jranek, II Remington Arms Company, Inc. Research: Development Johnical Center 315 Work fing Road Elizabethown, Kennucky 42701 (270) 769-7645 Phone (270) 737-9576 FAX Please bote my new e-mail address: jiranekmr@remington.com	<ul> <li>a) Recommend that the BOLD title changes:</li> <li>FROM: Remington 700 Internal </li> <li>TO: Memington Integrated Security System (ISS) Internal </li> <li>b) New paragraph: </li> <li>Manufacturer states that Remington Model 700 and Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms of a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt. </li> <li>Marlingt, Jranek, II </li> <li>Remington Model 700 or Model Seven centerfire tifles equipped with the Remington Indel 700 or Model Seven rifle which has an ISS device install firearms to a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt. </li> <li>Marlingt, Jranek, II </li> <li>Remington Arms Compary: Inc. </li> <li>Research &amp; Development Jeetinical Center </li> <li>315 Wed Ring Road </li> <li>Elizabetuder, Knutuk vg 12701 </li> <li>(270) 769-7645 Phone </li> <li>(270) 737-9576 FAX </li> <li>Please note my new e-mail address: jiranekmr@remington.com</li> </ul>	Marlin R. Jira	nek				
FROM: Remington       700       Internal         TO: Remington       Integrated Security System (ISS)       Internal         b) New paragraph:       Internal       A         Manufacturer states that Remington Model 700 and Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms safety device. To Identify a Remington Model 700 or Model Seven rolle 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.         Marting R. Jranek, II Remington Arms Company, Inc. Research: Development Testinical Center 315 West Ring Road Elizabethorsen, Kennucky 42701 (270) 759-7645 Phone (270) 737-9576 FAX         Please note my new e-mail address: jiranekmr@remington.com	FROM:       Tot       Internal         TO:       Memington       Integrated Security System (ISS)       Internal         O:       New paragraph:       Internal       Internal         Anufacturer states that Remington Model 700 and Model Seven centerfire files 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 right without an additional firearms or Model 200 or Model, Seven right without an additional firearms both.         Maring R. Jranek, II       Remington Adming Property System (ISS), patent number 6,240,670B1, function properly without an additional firearms both.         Maring R. Jranek, II       Remington Adming Properly Seven right with a J-shaped keyway protruding from the left side of the rear portion of the firearm both.         Maring R. Jranek, II       Remington Arms Company, Inc.         Researcher Development Bethincal Center       315 West Ring Road         Blizzbethout M. Kennukey 42701       (20) 769-7645 Phone         (20) 737-9576 FAX       Yease hote my new e-mail address: jiranekmr@remington.com	a) Recomme	nd that the B	OLD title changes:			
Remington       700       Internal         TO: Remington       Integrated Security System (ISS)       Internal         b) New paragraph:       Manufacturer states that Remington Model 700 and Model Seven centerfire bifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property 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 Eleminal Center 315 West Ring Road       Blizabethow, Kentucky 42701         (270) 769-7645 Phone (270) 737-9576 FAX       Please hote my new e-mail address: jiranekmr@remington.com	Remington       700       Internal         TO: Remington       Integrated Security System (ISS)       Internal         b) New paragraph:       Manufacturer states that Remington Model 700 and Model Seven centerfire tifles equipped with the Remington Integrated Security System (ISS), patent number 6,240,670B1, function property without an additional firearms safety device. To identity a Remington Model 700 or Model Seven rifle which has an 155 device installed, look f a locking cylinder with a J-shaped keyway protruding from the left side of the rear portion of the firearm bolt.         Martin R. Jranek, II       Remington Arms Company, Inc.         Research & Development Deving Model 700, 1270 769-7645 Phone (270) 737-9576 FAX         Please hote my new e-mail address: jiranckmr@remington.com	FROM:					. 4 5.0
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		b) New parage Manufacture Integrated S safety device a locking cyl	graph: r states that ecurity Syste 2. To identif inder with a	Remington Model 700 and em (ISS), patent number 6, y a Remington Model 700 o J-shaped keyway protrudi Man Remington Research & Do 315 Elizabeth	Model Seven centerfir 240,670B1, function pro or Model Seven rille with ng from the left side of lin R. Jranek, II n Arms Company, Inc. weldpment Technical Cent West Ring Road town, Kentucky 42701	e fifies equipped v operly without an a ich has an ISS dev the rear portion o	with the Remington additional firearms vice installed, look f f the firearm bolt.
		b) New parage Manufacture Integrated S safety devic a locking cyl	graph: r states that ecurity Syste 2. To identif inder with a	Remington Model 700 and em (ISS), patent number 6, y a Remington Model 700 c J-shaped keyway protrudi Research & Do 315 Elizabeth (270 (27) Please note my new e-mai	Model Seven centerfir 240,670B1, function pro- pr Model Seven rille with ing from the left side of lin R. Jranek, II 1 Arms Company, Inc. weldpmen Technical Cent West Ring Road town, Kentucky 42701 0) 769-7645 Phone 0) 737-9576 FAX I address: jiranekmr@re	e fifles equipped v operly without an a ich has an ISS dev the rear portion of ter emington.com	with the Remington additional firearms vice installed, look f f the firearm bolt.

# ET47638



ET47639



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, 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 Torque 1 est 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,

Bala. Ral

Branden M. Arnold Lab Technician



 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 tet 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.

Remington Model 700 center fire rifle.

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

Sincerely,

秘密

mouse

The make/model tested was:

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.

#### ET47642

# UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received	d: 9/26/01	Record No:	F\$D095	
Via:	UPS	Test Date:	10/2/01	
Returned Via:	UPS	Customer:	Remington	
Sample		Sample Dimer	nsions	
Manufacturer:	Remington	Body Height:	<u></u>	N/A in.
Lock Type:	Internal	Body Width:		N/A in.
Key Type:	Key-Other	Body Depth:		N/A in.
Model:	597	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	Weiaht:	-	N/A lbs

Cylinders in the fire	(1) Picking or Manipulati arms safety device shall resist picking with use of paper clips (jumbo si keyway for two minutes each Combination locks shall resist manual manipulat	<b>ng Test</b> re), paper clips (#1 size), an ion for two minutes.	d small screwd	rivers that fit in th
Sample No.	Test Condition	Tool	Time	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	Pass Pass
			1989 - 111 1989 - 111	
Inspect the firearm	LEI FOICEU REIIIOVAI IIISD			
	the firearm through the partial destruction of the firearm w	th common household tools.	not be disabled	Posulta
Sample No.	the firearm through the partial destruction of the firearm with th	ith common household tools	not be disabled	l or removed fror Results (Pass/Fail)
Sample No.	the firearm through the partial destruction of the firearm with     Description/Explanation     X     Firearm safety device does not appear that it may     destruction of the firearm with common hou     the firearm with common hou	ay be disabled through the non household tools. led through the partial de usehold tools.	not be disabled	Pass
Sample No.	Iteration is allowed by device a prease struction of the firearm with common firearm safety device does not appear that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hour safety device appears that it may be disable the firearm with common hou	ay be disabled through the non household tools. led through the partial de usehold tools.	not be disabled ne partial estruction of	l or removed fror Results (Pass/Fail) Pass
Sample No. 1 This test is designed	the firearm through the partial destruction of the firearm with Description/Explanation         Section 2 Secti	Apply 225 pounds force si ponents of the firearms sate	not be disabled	Pass central axis of th
Sample No.	the firearm through the partial destruction of the firearm with the firearm safety device does not appear that it may destruction of the firearm with common firearm safety device appears that it may be disable the firearm with common hour common the firearm safety device utilizing a pulling action firearms safety device utilizing a pulling action firearms safety device utilizing a pulling action firearms safety device the mating locking comport to either the mating locking comport t	Apply 225 pounds force si ponents ponents of the firearms sate Max. Load (Ib	not be disabled	Pass (Pass/Fail) Pass central axis of th Results (Pass/Fail)

#### (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

	Sample No.	39.4 inches + 0.4 inches five times to the top of the firearms safety dev Test Condition	rice body using a chucked s Tool	teel rod tool. Drops	Results
ď		X Firearm safety device tested with firearm.	blade	5	Pass
٦	1	Firearm safety device tested without firearm.	rod	5	Fail

Page 1 of 2

ET47643

			Record No.:F	SD095	
	(5) Shackle	e or Cable Cutti	ng Test		
This test is desig	ined to determine the firearms safety device res forces of	sistance to cutting forces ( 100 pounds force for cat	of 1,000 pounds force for so bles.	olid metal shac	kles or with hand
Sample No.	Test Condition	······································	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tes	sted with firearm.			
N/A	Firearm safety device teste	ed without firearm.	-	-	N/A
	(6) F	Plua Pullina Tes	:1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
This test is designe	ed to test a cylinder lock's ability to withstand a	pulling action to dislodge t	the plug from the cylinder. I	Drill the keyway	with a number 2
	diameter drill bit and insert a s deep. Apply a required tension of 225	elf tapping screw of size / pounds force axially betw	AB12 at least 0.75 inches een the case and installed	SCF8W.	
Sample No.	Test Condition		Max. Load (II	bf.)	Results
	X Firearm safety device tes	ted with firearm	· · · · · · · · · · · · · · · · · · ·		(Pass/Fall)
2	Firearm safety device teste	d without firearm	_		Dates
L				125	34000 34
	(7) [			<u>्य</u> ूत्र संस	98. 1721. 1941 - 1941 -
This test is design	ed to test the ability of a firearms safety device's	s keyway, if so equipped.	to withstand torque-pressu	es linsert a so	reviding with the
largest flat blac	e (not to exceed 5/8 inch) that will lit into the ke	yway, so that a torque lo	ad of 89 pounds force-inch	es can be appl	ed to the plug.
Sample No.	Test Condition		Max. Load (Ibs	s/in.) 🖏 🔡	Results (Pass/Fail)
	X Firearm safety device tes	ted with firearm			
3	Firearm safety device teste	d without firearm.		;	Dese
		247 A			F295
The testing agent s	(8) hall accomplish a test using a standard cation a	) Sawing Test steel hacksaw bisde with	32 teeeth per inch with a co	nstant vertical	downward force
The testing agent s	(8) hall accomplish a test using a standard carbon tep pounds. The test shall c One cutting cycle is defined as the combinate	) Sawing Test steel hacksaw blade with onsist of 120 cycles, with an of ghe 6-inch forward a	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu	nstant vertical	downward force
The testing agent st Sample No.	8 hall accomplish a test using a standard carbon teo pounds. The test shall c One cutting cycle is defined as the combination Test Condition	) Saviring Test steel hadisaw blade with onsist of 120 cycles, with an of give 6-inch forward a	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles	nstant vertical tting motion.	downward force of Results (Pass/Fail)
The testing agent si Sample No.	(8) hall accomplish a test using a strandard cation a ten pounds. The test shall c One cutting cycle is defined as the combinate Test Condition	) Sawing Test steel hadksaw blade with onsist of 20 cycles, with n of one 6-inch forward a ted with firearm.	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles	nstant vertical tting motion.	Results (Pass/Fail)
The testing agent st Sample No.	8 hall accomplish a test using a standard carbon tep pounds. The test shall c One cutting cycle is defined as the combinate Test Condition Firearm safety device test Pitearm safety device teste	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. ad without firearm.	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33	instant vertical tting motion.	resus downward force of Results (Pass/Fail) Fail
The testing agent st Sample No.	8 hall accomplish a test using a standard carbon teo pounds. The test shall c One cutting cycle is defined as the combinatio Test Condition Firearm safety device test Firearm safety device teste	) Saving Test steel hacks aw blade with onsist of 120 cycles, with an of the 6-inch forward a ted with firearm. d without firearm.	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33	nstant vertical tting motion.	দেহায়ড downward force Results (Pass/Fail) দিহাl
The testing agent si Sample No.	(8) hall accomplish a test using a strandard cation a ten pounds. The test shall c One cutting cycle is defined as the combinate Test Condition Firearch safety device test Firearm safety device teste	) Sawing Test steel had saw blade with onsist of 20 cycles, with an of one 6-inch forward a ted with firearm. d without firearm. Drop Test	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33	nstant vertical tting motion.	Results (Pass/Fail) Fail
The testing agent si Sample No.	(8) hall accomplish a test using a strandard cation a ten pounds. The test shall c One cutting cycle is defined as the combinate Test Condition Firearch safety device test Firearch safety device teste Sections (C) thru (F) of	) Sawing Test steel had saw blade with onsist of 20 cycles, with an of one 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 33 box type devices.	nstant vertical tting motion.	downward force of Results (Pass/Fail) Results (Pass/Fail) Results (Pass/Fail)
The testing agent si Sample No.	(8)         hall accomplish a test using a standard carbon a tep pounds. The test shall c         One cutting cycle is defined as the combinate         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) o         (A) Normal firing position with the barrel	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of ghe 6-inch forward a ted with firearm. In without firearm. Drop Test do not apply to lock- horizontal/With the lock-	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 33 box type devices. cking mechanism facing	nstant vertical tting motion.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass
The testing agent si Sample No.	(8)         hall accomplish a test using a standard carbon a teo plotinds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (B) Upside down with the barrel horized	) Sawing Test steel hacksaw blade with onsist of 120 cycles, with an of ghe 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-l horizontal/With the locking	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing mechanism facing direct	nstant vertical tting motion. directly up.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass
The testing agent st Sample No.	(8)         hall accomplish a test using a standard carbin a teo pounds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (B) Upside down with the barrel horiza         (C) If the firearm is a hall	) Sawing Test steel hadisaw blade with onsist of 20 cycles, with an of the 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-f horizontal/With the locking indgun, on the grip with	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing direc h the barrel vertical.	nstant vertical tting motion. directly up. xly down.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass
The testing agent si Sample No.	<b>(8</b> hall accomplish a test using a itended cation a tep pounds. The test shall c         One cutting cycle is defined as the combinate         Test Condition         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (C) If the firearm is a hall         (D) On the n	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-f horizontal/With the locking ndgun, on the grip with nuzzle with the barrel of	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing direct h the barrel vertical. vertical.	nstant vertical tting motion. directly up.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass
The testing agent si Sample No.	<b>8</b> hall accomplish a test using a titandard carbon a tep pounds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Firearm safety device test         Prearm safety device test         Sections (C) thru (F) o         (A) Normal firing position with the barrel         (C) If the firearm is a hall         (D) On the n         (E) On either	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-I horizontal/With the locking indgun, on the grip with nuzzle with the barrel to side with the barrel to	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing mechanism facing direc h the barrel vertical. vertical. prizontal.	nstant vertical tting motion.	Pass downward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass
The testing agent st Sample No.	<b>(8</b> hall accomplish a test using a standard carbon a teo pounds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (C) If the firearm is a hall         (D) On the n         (E) On either         (F) Exposed hammer or striker,	) Sawing Test steel hadisaw blade with onsist of 20 cycles, with an of gle 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-f horizontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho otherwise on the rear	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing direc h the barrel vertical. vertical. prizontal. rmost point of the weap	nstant vertical tting motion. g directly up. atly down.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent si Sample No.	Aall accomplish a test using a itended cation a tep pounds. The test shall c one cutting cycle is defined as the combinate Test Condition         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (B) Upside down with the barrel horiz:         (C) If the firearm is a hall         (D) On the n         (E) On either         (F) Exposed hammer or striker,	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-f horizontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho otherwise on the rear	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing direc h the barrel vertical. vertical. prizontal. trmost point of the weap	directly up.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass
The testing agent st Sample No. 3 Semple No. 2 REMARKS/NOTI (6)(7) Test could Firearm Used: Re #3: 27954XX (2)	All accomplish a test using a ditandard carbon iteo poinds. The test shall contained in the point of the	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-f horizontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho otherwise on the rear ass of cylinder material R; 20" barrel), #2: 279	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing direc h the barrel vertical. vertical. prizontal. trmost point of the weap 48XX (22 LR; 20" barrel	directly up. a directly up. atly down.	Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent st Sample No. 3 Semple No. 2 REMARKS/NOTE (6)(7) Test could Firearm Used: Re #3: 27954XX (2 Sample Description is for the test test test test test test test.	<b>(8</b> hall accomplish a test using a itempletinds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (D) On the n         (C) If the firearm is a hall         (D) On the n         (E) On either         (F) Exposed hammer or striker,         S         not be completed due to size and hardne         amington, model 597, #1: 27869XX (22 Lipped)         on: Internal locking mechanism consisting mechanism consisting	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. d without firearm. Drop Test do not apply to lock-I horizontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho otherwise on the rear ess of cylinder material R; 20" barrel), #2: 279 g of a cylinder lock at the	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward cu Cycles 33 box type devices. cking mechanism facing mechanism facing direc h the barrel vertical. vertical. prizontal. most point of the weap l 48XX (22 LR; 20" barrel lingger guard behind trig	directly up. stly down.	Action of the second se
The testing agent st Sample No. Sample No. Sample No. Sample No. 2 REMARKS/NOTE (6)(7) Test could Firearm Used: Re #3: 27954XX (2) Sample Description his test was per specification red reflect the performed	<b>(8</b> hall accomplish a test using a standard carbon a ten pounds. The test shall c         One cutting cycle is defined as the combination         Test Condition         Test Condition         Firearm safety device test         Firearm safety device test         Sections (C) thru (F) of         (A) Normal firing position with the barrel         (D) On the n         (C) If the firearm is a hall         (D) On the n         (E) On either         (F) Exposed hammer or striker,         S         not be completed due to size and hardne         amington, model 597, #1: 27869XX (22 Li         2 LR; 20" barrel).         on: Internal locking mechanism consisting performed in accordance with the puirements and the results properly rmance of the listed sample	) Sawing Test steel hacksaw blade with onsist of 20 cycles, with an of give 6-inch forward a ted with firearm. Drop Test do not apply to lock-I horizontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho otherwise on the rear ess of cylinder material R; 20" barrel), #2: 279 g of a cylinder lock at the Arnold United States Test 3448 N. Emporie	32 teeeth per inch with a co no time limit, by hand. Ind one 6-inch backward ou Cycles 33 box type devices. cking mechanism facing mechanism facing direc h the barrel vertical. vertical. orizontal. most point of the weap l 48XX (22 LR; 20" barrel lingger guard behind trig Laboratory Michta KS 67210	directly up. stly down.	downward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas

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2

## UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received	: <b>9/26/</b> 01	Record No:	FSD092
Via:	UPS	Test Date:	10/2/01
Returned Via:	UPS	Customer	Remington
<u>Sample</u>		Sample Dimer	nsions
Manufacturer:	Remington	Body Height:	
Lock Type:	Internal/Integrated	Body Width:	
Key Type:	Key-Other	Body Depth:	
Model:	700 EtronX	Shackle/Cable	Diameter:
Serial/Lot:	N/A	Shackle/Cable	Length:

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

1999-1999 1997 - 1997 1997 - 1997

Sample No.

#### 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. (min.) Time Results **Test Condition** Tool (Pass/Fail)8

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

N/A in.

5

X	Firearm safety device tested with firearm.	jumbo paper clip	<b>2</b> 2	Raiss Viel	( 7%) 2
3	Firearm safety device tested without firearm.	#1 paper clip	3	Pess	
		1.4 mm screwdriver		Pass	

## (2) Forced Removal Inspection

spect 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)		
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

s designed to test the strength of the firearm safety device utivity a putting action. Apply 225 pounds force slowly along the central axis of the firearms safety device locking components

		To aunion distigned of thered and and build to sime, us wered locking could	conents of the firearms safety device.	
1995 1997 1997	Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)
-Ghifed		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 foture, 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 d	teel rod tool.		
Sample No.	Test Condition	Tool	Drops	Results (Pass/Fail)
	X Firearm safety device tested with firearm.	blade	5	Fail
3	Firearm safety device tested without firearm.	rod	-	N/A

Page 1 of 2

ET47645

This test is desire	(5) Shackle	or Cable Cuttin	ng Test M 1 000 payinda farca for sa	lid matal chack	tee or with hand
This rest is design	forces of f	ion pounds force for cabi	ir 1,000 pounds force for so les.	aa metai shaci	ISS OF WHILE HARD
Sample No.	Test Condition		Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
N/A	Firearm safety device test	ed with firearm.			NKA
IWA		i wanout iireann.	-		NVA 
	<u>(6) P</u>	lug Pulling Tes	<u>t</u>		ىرىكى تىرىپىلىكى تەكەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىيەر يەرىپىي يەرىپىيەر يەرىپىيەر يە
This test is designe	d to test a cylinder lock's ability to withstand a p diameter drill bit and insert a se	ulling action to dislodge t If tapping screw of size A	he plug from the cylinder. C AB12 at least 0.75 inches	Drill the keyway	with a number 20
Sample No	Test Condition	Jounds force axially betwo	een the case and installed a	SCREW.	Results
	l est Condition		Max. Load (in	ot.)	(Pass/Fail)
1	Firearm safety device test	ed with firearm.	20.00		Deine
		J without firearm.	30.29		Pass
	(7) P	lug Torque Tes	t	200 20 20	ು ನಿರಿ ಗ್ರಾ. ನಿರಿ ನ್ನು ಗಳಿಗಿ ಗ
This test is designed largest flat blad	ed to test the ability of a firearms safety device's le (not to exceed 5/8 inch) that will fit into the key	keyway, if so equipped, way, so that a torque lo	to withstand torque pressur ad of 89 pounds force-inche	es. Insert a sc	rewdiiver with the
Sample No.	Test Condition		Max. Load (lbs	/in.)	Results (Pass/Fail)
	X Firearm safety device test	ed with firearm		n. ∭≥	
4	Firearm safety device tester	1 without firearm.	89 -	è	Fail
	11.2. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.				
The testing agent s	all accomplish a test using a standard carbon s ten populat. The test shall po	Sawing Test teel hacksaw blade with insist of 120 cycles, with	32 teeeth per inch with a co no time limit, by hand.	nstant vertical	downward force (
Oceando No	One cutting cycle is defined as the combination	n of one 6-inch forward a	ind one 6-inch backward cu	tting motion.	Results
Sample No.		Sev.	Cycles		(Pass/Fail)
N <b>IA</b>	Firearm safety device test	ed with firearm. d without firearm.	-		N/A
			L		
New Party of the P		Drop Test			
Sample No:	Sections (C) thru (F) o	io not apply to lock-	box type devices.		Results (Pass/Fail)
	(A) Normal firing position with the barrel	horizontal/With the lo	cking mechanism facing	directly up.	Pass
	(B) Upside down with the barrel horizo	ontal/With the locking	mechanism facing direc	tly down.	Pass
	(C) If the firearm is a har	idgun, on the grip with	h the barrel vertical.		Pass
2	(D) On the muzzle with the barrel vertical.				Pass
2	(D) On the m	iuzzle with the barrel			
2	(D) On the m (E) On either	side with the barrel is side with the barrel ho	orizontal.		Pass
2	(D) On the m (E) On either (F) Exposed hammer or striker,	side with the barrel ho otherwise on the rear	orizontal. most point of the weap	on.	Pass Pass
2 REMARKS/NOTI	(D) On the rr (E) On either (F) Exposed hammer or striker, S	side with the barrel ho otherwise on the rear	onizontal. most point of the weap	on.	Pass Pass
2 REMARKS/NOTI Firearms Used: F #3: EG0005XX #3: EG0005X	(D) On the rr (E) On either (F) Exposed hammer or striker, ES temington, model 700 EtronX, #1: EG000 (243; 26" barrel), #4: S62839XX (22	otherwise on the rear otherwise on the rear 01XX (22-250; 26" bar -250; 26" barrel).	most point of the weap	on. 6; 24" barrel	Pass Pass
2 REMARKS/NOTI Firearms Used: F #3: EG0005XX Sample Descripti his test was p	(D) On the rr (E) On either (F) Exposed hammer or striker, ES temington, model 700 EtronX, #1: EG00( . (243; 26" barrel), #4: S62839XX (22 on: Internal electronic locking mechanism arformed in accordance with the	side with the barrel ho otherwise on the rear 01XX (22-250; 26" bar 2-250; 26" barrel). consisting of a lock o Arnold	most point of the weap most point of the weap πel), #2: XC13XX (30-0 cylinder at the base of g	on. 16; 24" barrel rip.	Pass Pass
2 REMARKS/NOTI Firearms Used: F #3: EG0005XX Sample Descripti his test was p specification re- reflect the perfo	(D) On the rr (E) On either (F) Exposed hammer or striker, ES temington, model 700 EtronX, #1: EG000 . (243; 26" barrel), #4: S62839XX (22 on: Internal electronic locking mechanism arformed in accordance with the quirements and the results properly rmance of the listed sample.	otherwise on the barrel ho otherwise on the real otherwise on the real (22-250; 26" barrel). consisting of a lock of Arnold United States Test (3448 N. Emporia, 1	most point of the weap mel), #2: XC13XX (30-0 cylinder at the base of g Laboratory Wichita, KS 67219	on. 6; 24" barrel rip. Phone Fax	Pass Pass ), 316-832-160( 316-832-160)

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# ET47646

Confidential - Subject to Protective Order Williams v. Remington

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## UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Pate Received:	10/3/01	Record No:	FSD096	
Via:	Fed Ex	Test Date:	10/3/01	
Returned Via:	UPS	Customer:	Remington	
Sample		Sample Dimer	<u>isions</u>	
Manufacturer:	Remington	Body Height:		N/A in.
Lock Type:	Internal	Body Width:		N/A in.
Кеу Туре:	Key-Other	Body Depth:		N/A in.
Model:	710	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:	Ū.	N/A lbs

Cylinders in the firea	(1) Picking or Manipulatin arms safety device shall resist picking with use of paper clips (jumbo siz keyway for two minutes each. Combination locks shall resist manual manipulati	<u>ng Test</u> re), paper clips (#1 size), an on for two minutes.	d small screwd	rivers that fit in the
Sample No.	Test Condition	Тооі	Time 💒	Results (Rass/Fail)
2	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 Pass Pass
Inspect the firearm a	(2) Forced Removal Insp and firearms safety device to determine if the firearms safety device is the firearm through the partial destruction of the firearm wi	<b><u>ection</u></b> of such a design that it may th common household tools	not be disabled	d or removed from
Sample No.	Description/Explanation			(Pass/Fail)

		(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
្មាធិតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិ ភូមិនិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធីតិវិធី		

## (3) Tensile Test

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	This test is designe	d to set the strength of the firearm safety device utilizing a pulling action. firearms safety device locking compo without interfering or giving support to Gither the mating locking comp	Apply 225 pounds force slowly along the nents conents of the firearms safety device.	central axis of the
	Sample No.	Test Condition	Max. Load (ibf.)	Results (Pass/Fail)
24 <b>6</b> 6	, is a set of the set	Firearm safety device tested with firearm.		
:	N/A	Firearm safety device tested without firearm.	-	N/A

	(4) Shock Test	ŦĸċġċĊĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ		والمتعادي فتراذك بالتجرية اجتماعتها
This test is desig	ed to test the firearms safety device and locking mechanism ability to w pound weight from a distance of one 39.4 inches + 0.4 inc	rithstand shock. Using the s shes five times to the top of	hock impact fi	dure, drop a 2.2
the firearms	safety device body aligned to impinge and penetrate the locking keywa Additionally, using the shock impact fixture, drop a 2.2 pour 39.4 inches + 0.4 inches five times to the top of the firearms safety de	y or combination lock using nd weight from a distance o vice body using a chucked s	a chucked bla f t <del>eel</del> rod tool.	de-type 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

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•		Record No.:F	SD096	23 Nov 1000 1100 7000
1	(5) Shackle or Cable Cu	<u>utting Test</u>		
This test is design	ed to determine the firearms safety device resistance to cutting for forces of 100 pounds force fo	ces of 1,000 pounds force for so r cables.	lid metal shack	es or with hand
Sample No.	Test Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.		l í	
N/A	Firearm safety device tested without firearm	I	-	N/A
	(6) Blug Builling	Toot	ومادار الماريد بعد المرا	والإيران ويستريك والمراجع
This test is designed	to test a minder look's ability to withstand a nulling action to dialo	l <u>CSL</u> dae the plug from the adjuder. I	The boundary	uith a number 🤉
	diameter drill bit and insert a self tapping screw of deep. Apply a required tension of 225 pounds force axially	size AB12 at least 0.75 inches between the case and installed i	screw.	
Sample No.	Test Condition	Max Load (II	of)	Results
		with Load (ii		(Pass/Fail)
A			1	
4	Firearm safety device tested without firearm	-		Pass
				108. 12
This test is dealers	(7) Plug Torque	<u>Fest</u>		27. <b>2</b> 7. <b>2</b> 7.
largest flat blad	e (not to exceed 5/8 inch) that will fit into the keyway, is so that a toro	ped, to withstand torque pressu ue load of 89 pounds force-inch	es, insert a scr es can be applie	d to the pina.
Sample No.	Test Condition	Max. Load (lbs	i/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm			
3	Firearm safety device tested without firearm		>	Pass
ومناداته ومعتكر وأعطيت والمتعاد				
The testing agent st	(8) Sawing Ter all accomplish a test using a standard carbon steel had saw blade	<b>it</b> with 32 teeth per inch with a co	instant vertical d	ownward force (
The testing agent st	(8) Sawing Test all accomplish a test using a standard carbon steel hadssaw brade ten pounds. The test shall consist of £20 cycles, One cutting cycle is defined as the combination of one 6-inch forw Test Condition	St with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles	instant vertical d	ownward force o
The testing agent st Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw blade test pounds. The lest shall consist of 1/20 cycles, One cutting cycle is defined as the combination of one 6-inch forw Test Condition	it with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles	instant vertical d	ownward force of Results (Pass/Fail)
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of cite 6-inch forw Test Condition Firearm safety device tested with firearm.	st with 32 teeeth per inch with a co with no time limit, by hand, ard and one 6-inch backward cu Cycles	instant vertical d	ownward force o Results (Pass/Fail)
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forw Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm	it with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120	instant vertical d	ownward force of Results (Pass/Fail) Fail
The testing agent st Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten poinds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of give 6-inch forw Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles . 120	instant vertical d	ownward force of Results (Pass/Fail) Fail
The testing agent of Sample No.	(8) Sawing Tes all accomplish a test using a standard carbon steel hacksaw brade ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of chie 6-inch forw Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm Drop Test	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120	Instant vertical d	ownward force of Results (Pass/Fail) Fail
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a plandard carbon steel hadisaw brade ten pounds. The test shall consist of £20 cycles, One cutting cycle is defined as the combination of give 6-inch forw Test Condition Firearmi safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo	it with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120 20 20 20 20 20 20 20 20 20 20 20 20 2	Instant vertical d	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail)
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of girls 6-inch forw Test Condition Firearm safety device tested with firearm. Firearm safety device tested with out firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With th	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120 20 20 20 20 20 20 20 20 20 20 20 20 2	Instant vertical d tting motion.	ownward force d Results (Pass/Fail) Fail Results (Pass/Fail) Pass
The testing agent of Sample No.	(8) Sawing Tes all accomplish a test using a standard carbon steel hadisaw brade ten points. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of give 6-inch forw "Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc	st with 32 teeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120 120 Dock-box type devices. The locking mechanism facing king mechanism facing direct	directly up.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of £20 cycles, One cutting cycle is defined as the combination of give 6-inch forw Test Condition Firearmi safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grig	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120 ock-box type devices. The locking mechanism facing direct with the barrel vertical.	nstant vertical d tting motion. ) directly up. ctly down.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadrsaw brade ten pounds. The test shall consist of 120 cycles, One cutting eycle is defined as the combination of give 6-inch forw Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grip (D) On the muzzle with the bar	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 120 bck-box type devices. The locking mechanism facing king mechanism facing direct p with the barrel vertical. Irrel vertical.	nstant vertical d tting motion.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass
The testing agent of Sample No.	(8) Sawing Tes- all accomplish a test using a standard carbon steel hadisaw brade ten poinds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of give 6-inch forw "Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to le (A) Normal firing position with the barrel horizontal/With the (B) Upside down with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grig (D) On the muzzle with the barrel with the barrel horizontal/With the barrel (E) On either side with the barrel with the barrel with the barrel horizontal/With the	st with 32 teeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles . 120 . 120 	a directly up.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass
The testing agent of Sample No.	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten poinds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of give 6-inch forw Test Condition Firearmi safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grig (D) On the muzzle with the barrel (F) Exposed hammer or striker, otherwise on the	st         with 32 teeeth per inch with a co         with no time limit, by hand.         ard and one 6-inch backward cu         Cycles         120         bck-box type devices.         ne locking mechanism facing direct         brith the barrel vertical.         with the barrel vertical.         rel horizontal.         rearmost point of the weap	directly up. ctly down.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent of Sample No. B Sample No. 4 REMARKS/NOTE	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of £20 cycles, One cutting eycle is defined as the combination of one 6-inch forw Test Condition Firearm Safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grip (D) On the muzzle with the barrel with the barrel horizontal/With the barrel (F) Exposed hammer or striker, otherwise on the Sections (C) thru (F) do not splay to log (E) On either side with the barrel horizontal/With the barrel (F) Exposed hammer or striker, otherwise on the	at         with 32 teeeth per inch with a cowith no time limit, by hand.         ard and one 6-inch backward cu         Cycles         120         bck-box type devices.         ne locking mechanism facing direction         with the barrel vertical.         with the barrel vertical.         rearmost point of the weap	nstant vertical d tting motion. directly up. stly down.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent of Sample No. 3 Sample No. 4 A REMARKS/NOTE 6)(7) Test could irreams Used: R 4: 71026291 (27	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of £20 cycles, One cutting eycle is defined as the combination of one 6-inch forw Test Condition Firearm Safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grip (D) On the muzzle with the barrel (F) Exposed hammer or striker, otherwise on the Sections (C) thru (F) do not apply to low (F) Exposed hammer or striker, otherwise on the Sections (F) the firearm is a mandgun, and the barrel (F) Exposed hammer or striker, otherwise on the Sections (F) the firearm is a mandgun, model 710, #2: 71026290 (270; 22" barrel), #3: 0; 22" barrel).	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 	nstant vertical d tting motion.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
Sample No. Sample No. Sample No.	(8) Sawing Tes- all accomplish a test using a standard carbon steel hadisaw brade ten poinds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of give 6-inch forw "Test Condition Finearm safety device tested with firearm. Finearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the (B) Upside down with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grig (D) On the muzzle with the barrel with the barrel (F) Exposed hammer or striker, otherwise on the Sections (C) 22" barrel), #3: (C) 22" barrel). In Internal locking mechanism consisting of a cylinder loc formed in accordance with the barrel horizontal (Mither loc	st with 32 teeeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 	a directly up. 2 directly up. 2 tly down.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent of Sample No. Sample No. Sample No. 4 EMARKS/NOTE 6)(7) Test could firearms Used: R 4: 71026291 (27 ample Descriptic his test was pe pecification rec	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten poinds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of ghe 6-inch forw "Test Condition Firearmi safety device tested with firearm. Firearmi safety device tested without firearm. Firearmi safety device tested without firearm. Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the (B) Upside down with the barrel horizontal/With the loc (C) If the firearm is a handgun, on the grip (D) On the muzzle with the barrel (F) Exposed hammer or striker, otherwise on the semington, model 710, #2: 71026290 (270; 22" barrel), #3: 0; 22" barrel). m: Internal locking mechanism consisting of a cylinder loc formed in accordance with the uirements and the results properly United States	st with 32 teeth per inch with a co with no time limit, by hand. ard and one 6-inch backward cu Cycles 	directly up. thy down.	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent of Sample No. Sample No. Sample No. 4 A REMARKS/NOTE 6)(7) Test could preams Used: R 4: 71026291 (27 ample Description his test was per pecification rece effect the performance	(8) Sawing Test all accomplish a test using a standard carbon steel hadisaw brade ten pounds. The test shall consist of £20 cycles, One cutting cycle is defined as the combination of give 6-inch forw Test Condition Firearmi safety device tested with firearm. Firearm safety device tested without firearm Drop Test Sections (C) thru (F) do not apply to lo (A) Normal firing position with the barrel horizontal/With the foc (C) If the firearm is a handgun, on the grig (D) On the muzzle with the barrel (E) On either side with the barrel (F) Exposed hammer or striker, otherwise on the sections (C) thru (F) do not apply to lo (C) If the firearm is a handgun, on the grig (D) On the muzzle with the barrel (F) Exposed hammer or striker, otherwise on the sections of cylinder materington, model 710, #2: 71026290 (270; 22" barrel), #3: 0; 22" barrel). In: Internal locking mechanism consisting of a cylinder loc formed in accordance with the uirements and the results properly mance of the listed sample.	at         with 32 teeeth per inch with a co         with no time limit, by hand.         ard and one 6-inch backward cu         Cycles         120         bck-box type devices.         ne locking mechanism facing direct         both the barrel vertical.         rel horizontal.         rearmost point of the weap         terial.         71025667 (270; 22" barrel),         kat bolt.         Test Laboratory         ria, Wichita, KS 67219	Phone 3 Fax 3	ownward force of Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas

## ET47648

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## UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

- Doto Rossiund	0/06/04	Descending	505004		
	1. 9/20/01	Record No:	FSD094		
Returned Via:	UPS	Customer:	Remington		
Samole		Sample Dimensi	046		
Manufacturer:	Reminaton	Body Height	NIS NI	/A in	
lock Type	Internal	Body Midth:	N. A	A III. IA in	
Key Type:	Key_Other	Body Valuta. Body Dopth:	IN. N	/A (1).	
Model	870	Bouy Depth.	IN.	AIN.	
Sorial/Lat		Shackle/Cable Di	ameter N	AIN.	
Test Spec.:	California Title 11, Div. 1, Ch. 12.6	Weight:	Nangun. N	A In. A Ibs.	
Culinders in the fire	(1) Picking	or Manipulatii	ng Test		
Cymiders in the fire	earms sarely device snall resist picking with use keyw	of paper clips (jumbo siz ay for two minutes each.	te), paper clips (#1 size), i	and small screw	drivers that fit in the
	Combination locks shall	resist manual manipulati	ion for two minutes.		<u> </u>
Sample No.	Test Condition		Tool	Time S (min.)	(Pass/Fail)3
	Firearm safety device tes	ted with firearm.	jumbo paper clip:	制 1 1 2 2	ି <b>ନି</b> ଶ୍ୱରେ ପ୍ରିକ୍ଷ
1	Firearm safety device teste	d without firearm.	#1 paper clip	2	Pass
			1.4 mm screwdrive		f Pass
		البيور			
	(2) Forced	Domoval Inen	option	in.	
Inspect the firearm	and firearms safety device to determine if the f the firearm through the partial des	irearms safety device is in	of such a design that it ma th common household tor	or ny not be disable dis.	ed or removed from
Sample No.	, De	scription/Explanation			Results (Pass/Fail)
1	Firearm safety device does destruction of Firearm safety device appears the firea	not applear that it may the finearm with comm what it may be disable arm with common hou	ay be disabled through non household tools. led through the partial usehold tools.	the partial destruction of	Pass
12222465					
	(3	) Tensile Test			
This test is designe	d togest the strength of the firearm safety device firearms safe without interforing or giving support to either	e utilizing a pulling action iety device locking compo r the mating locking comp	<ul> <li>Apply 225 pounds force onents</li> <li>ponents of the firearms sa</li> </ul>	slowly along the	e central axis of the
Sample No.	Test Condition	·	Max. Load	(lbf.)	Results (Pass/Fail)
	Firearm safety device test	ted with firearm.			
N/A	Firearm safety device tester	<b>d without</b> firearm.	-		N/A
This test is design	ed to test the firearms safety device and lockin	) Shock Test	ithstand shock. Using the	shock impact fi	ixture, drop a 2.2
the firearms	pound weight from a distance of ( safety device body aligned to impinge and pen Additionally, using the shock impac 39.4 inches + 0.4 inches five times to the top of	one 39.4 incres + 0.4 inc etrate the locking keywa ct fixture, drop a 2.2 pour of the firearms safety dou	mes rive times to the top of y or combination lock usin to weight from a distance	or g a chucked bla of steel rod tool	ide-type tool.
Sample No.	Test Condition	and in our no ancie up	Tool	Drops	Results (Pase/Epil)
1			·····		<u></u>

 
 Sample No.
 Test Condition
 Tool
 Drops
 Results (Pass/Fail)

 1
 Firearm safety device tested with firearm.
 blade
 5
 Pass

Page 1 of 2

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Concela No.	forces of 100 pounds force for cal	bles.		Results
	Test Condition	Max. Load (lbf.)	Time (s.)	(Pass/Fail)
NUA	Firearm safety device tested with firearm.			
IWA	Firearm safety device tested without firearm.		-	N/A
	(6) Plug Pulling Tes	st		
This test is designe	d to test a cylinder lock's ability to withstand a pulling action to dislodge diameter drill bit and insert a self tapping screw of size deep. Apply a required tension of 225 pounds force axially bety	the plug from the cylinder. Dril AB12 at least 0.75 inches veen the case and installed scr	l the keyway ew.	with a number 20
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
			, , , ,	a. 14
This test is designed	(7) Plug Torque Tes	<u>st</u>	ಪ್ರಕ್ಷ ಗಟ್ಟೆ ಕೆ	<u> </u>
largest flat blad	e (not to exceed 5/8 inch) that will fit into the keyway, so that a torque is	ad of 89 pounds force inches	can be appl	ed to the plug.
Sample No.	Test Condition	Max. Load Obs/ir	ı.)	Results (Pass/Fail)
	K Firearm safety device tested with firearm.			2 <sup>9</sup>
1	Firearm safety device tested without firearm.			Pass
	(8) Sawing Test	1997 		
he testing agent sl	all accomplish a test using a standard carbon steel hacksaw blede with ten pounds. The test shall consist of 120 cycles. With	32 teeeth per inch with a cons no time limit, by hand.	tant vertical	downward force of
Sample No.	The cutury cyce is defined as the commation of one panen forward a	Cycles	ig motion.	Results
4	Eirearriteafatu device tostad with firearri	70		(Pass/Fail)
।  3.≩≘	Fifearm safety device tested with mearm.	41		Fail Call
				i can
	Drop Test			
Sample No.	Sections (C) thru (F) do not apply to lock-	box type devices.		Results
145 197 197	(A) Normal firing position with the barrel horizontal/With the ic	ocking mechanism facing d	irectly up	(Pass/Fail) Pass
89.49P	(B) Upside down with the barrel horizontal/With the locking	mechanism facing directly	down.	Pass
2	(C) If the firearm is a handoun, on the grip will	h the barrel vertical.		Pass
	(D) On the muzzle with the barrel	vertical.		Pass
	(E) On either side with the barrel h	orizontal.		Pass
	(F) Exposed hammer or striker, otherwise on the rea	most point of the weapon		Pass
EMARKS/NOTE	S			
EMARKS/NOTE i)(7) Test could	S not be completed due to size and hardness of cylinder materia	d.		I
EMARKS/NOTE )(7) Test could rearm Used: #1 ample Description	S not be completed due to size and hardness of cylinder materia C91868XX (12 ga.; 28" barrel), #2: C87486XX (12 ga.; 28" barrel), #2: C87486XX (12 ga.; 28" barrel)	il. arrei), #3: C89415XX (12 g	a.; 26" bar	re!).
EMARKS/NOTE )(7) Test could rearm Used: #1 ample Description his test was pe	S not be completed due to size and hardness of cylinder materia C91868XX (12 ga.; 28" barrel), #2: C87486XX (12 ga.; 28" ba on: Internal locking mechanism consisting of a cylinder lock at informed in accordance with the Arnold	ll. arrel), #3: C89415XX (12 g trigger guard behind trigge	a.; 26" bar r.	rel).

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# ET47650

# UNITED STATES TEST LABORATORY

# Firearm Safety Device Test Summary

10/3/01	Record No:	FSD097	
Fed Ex	Test Date:	10/3/01	
UPS	Customer:	Remington	
	Sample Dimer	sions	
Remington	Body Height:		N/A in.
Internal	Body Width:		N/A in.
Key-Other	Body Depth:		N/A in.
870	Shackle/Cable	Diameter:	N/A in.
N/A	Shackle/Cable	Length:	N/A in.
California Title 11, Div. 1, Ch. 12.6	Weight:	0	N/A lbs.
	10/3/01 Fed Ex UPS Remington Internal Key-Other 870 N/A California Title 11, Div. 1, Ch. 12.6	10/3/01       Record No:         Fed Ex       Test Date:         UPS       Customer:         Remington       Body Height:         Internal       Body Width:         Key-Other       Body Depth:         870       Shackle/Cable         N/A       Shackle/Cable         California Title 11, Div. 1, Ch. 12.6       Weight:	10/3/01       Record No:       FSD097         Fed Ex       Test Date:       10/3/01         UPS       Customer:       Remington         Remington       Body Height:       Internal         Internal       Body Width:       Key-Other         870       Shackle/Cable Diameter:       N/A         N/A       Shackle/Cable Length:         California Title 11, Div. 1, Ch. 12.6       Weight:

Cylinders in the firearms	(1) Picking or Manipulatin safety device shall resist picking with use of paper clips (jumbo siz keyway for two minutes each. Combination locks shall resist manual manipulati	n <b>g Test</b> re), paper clips (#1 size), and ion for two minutes.	i small screwdr	vers that fit in the
Sample No.	Test Condition	Tool	Time 🔊 (min.)	Results (Pass/Fail)8-3
N/A	Firearm safety device tested with firearm. Firearm safety device tested without firearm.	jumbo paper clip #1 paper clip 1.4 mm screwdriver		N/A N/A N/A
Inspect the firearm and f	(2) FORCED KEMOVAL INSP rearms safety device to determine if the firearms safety device is the firearm through the partial destruction of the firearm wi	<b>CELION</b> of such a design that it may the common household tools.	not be disabled	or removed from Results
Sample No.	Description/Explanation	<u>,</u>		(Pass/Fail)
N/A	Firearm safety device does not appear that it ma destruction of the firearm with comm Firearm safety device appears that it may be disabl the firearm with common hou	ay be disabled through th non household tools. led through the partial de usehold tools.	e partial	N/A
			ملىمىدىيە مەرمەسىيە مەرمە مەرمە مەرمەسىيە مەرمەسىيە	

	(3) Tensile Test This test is designed to lest the strength of the firearm safety device utilizing a pulling action Apply 225 pounds force slowly all firearms safety device locking components without interforing or giving support to either the mating locking companents of the firearms safety device							
	Sample No.	Test Condition	Max. Load (lbf.)	Results (Pass/Fail)				
. Antonio		Firearm safety device tested with firearm.		1				
	N/A	Firearm safety device tested without firearm.	-	N/A				

	(4) Shock Test			
This test is designed	d to test the firearms safety device and locking mechanism ability to w pound weight from a distance of one 39.4 inches + 0.4 inc	rithstand shock. Using the s shes five times to the top of	hock impact fi	xture, drop a 2.2
the firearms s	afety device body aligned to impinge and penetrate the locking keywa Additionally, using the shock impact fixture, drop a 2.2 pour 39.4 inches + 0.4 inches five times to the top of the firearms safety dev	y or combination lock using nd weight from a distance o vice body using a chucked s	a chucked bla f teel rod tool.	de-type 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

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This test is desir	(5) Shackle or Cable Cutt	ing Test	d motol chack	lee or with hand	
	forces of 100 pounds force for ca	bles.	u metal snack		
Sample No.	Test Condition	dition Max. Load (lbf.) Time (s.)			
N/A	Firearm safety device tested with firearm.		l l	DIVA	
	riteanti salety device tested without firearm.	-	- 		
This test is design	(6) Plug Pulling Te ed to test a cylinder lock's ability to withstand a pulling action to dislodge diameter drill bit and insert a self tapping screw of size deep. Apply a required tension of 225 pounds force axially be	<b>St</b> the plug from the cylinder. Dr AB12 at least 0.75 inches ween the case and installed sc	rill the keyway crew.	with a number 20	
Sample No.	Test Condition	Max. Load (lbf	f.)	Results (Pass/Fail)	
	Firearm safety device tested with firearm.			(i assir all)	
N/A	Firearm safety device tested without firearm.	-		NA	
				35. <u>(</u>	
This test is design	(7) Plug Torque Te	<u>st</u>		8 (S. 1997) 1997 -	
largest flat bla	de (not to exceed 5/8 inch) that will fit into the keyway, so that a torque	bad of 89 pounds force inches	s can be apply	ed to the plug.	
Sample No.	Test Condition	Max. Load (lbs/i	in.)	Results (Pass/Fail)	
	Firearm safety device tested with firearm			, aver any	
N/A Firearm safety device tested without tirearm.					
N/A	Firearm safety device tested without firearm.			N/A	
N/A	Firearm safety device tested without firearm. (8) Savving Test hall accomplish a test using distandard carbon steel hadisew bade with	1 32 teeeth per inch with a con	istant vertical d	N/A downward force o	
N/A The testing agent a	Firearm safety device tested without firearm. (8) Saving Test hall accomplish a test using a standard carbon steel haoisaw blade with ten pounds. The test shall consist of 720 cycles, will One cutting cycle is defined as the combination of one 6-inch forward Test Condition	1 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cvctes	istant vertical o	N/A downward force o Results	
N/A he testing agent a Sample No.	Firearm safety device tested without firearm. (8) Sawing Test hall accomplish a test using estandard carbon steel hacksaw blade with ten pounds. The test shall consist of 20 cycles, wit One cutting cycle is defined as the combination of give 6-inch forward Test Condition Firearm safety device tested with firearm.	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cycles	istant vertical o	N/A downward force o Results (Pass/Fail)	
N/A he testing agent s Sample No.	Firearm safety device tested without firearm. (8) Savving Test hall accomplish a test using a standard carbon steel haoksaw blade with ten pounds. The test shall consist of 220 cycles, with One cutting cycle is defined as the combination of one 6-inch forward Test Condition Firearm safety device tested with firearm. Preasm safety device tested without firearm.	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cycles 44	istant vertical o	N/A downward force o Results (Pass/Fail) Fcil	
N/A he testing agent s Sample No.	Firearm safety device tested without firearm. (8) Sawing Test hall accomplish a test using extanded carbon steel hadisaw blade with ter pounds. The test shall consist of 20 cycles, wil One cutting cycle is defined as the combination of one 6-inch forward Test Condition Firearm safety device tested with firearm. Prearm safety device tested without firearm.	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cycles 44	istant vertical o	N/A downward force o Results (Pass/Fail) Fcil	
N/A he testing agent a Sample No.	Firearm safety device tested without firearm. (8) Sawing Test hall accomplish a test using estandard carbon steel haoksaw blade with ter public. The test shall consist of 20 cycles, with One cutting cycle is defined as the combination of one 6-inch forward Test Condition Firearm safety device tested with firearm. Picearm safety device tested without firearm. Drop Test	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cycles 44	istant vertical o	N/A downward force o Results (Pass/Fail) Fcil	
N/A he testing agent s Sample No.	Firearm safety device tested without firearm. (8) Sawing Test hall accomplish a test using a standard carbon steel haoisaw bade with ter pounds. The test shall consist of 20 cycles, wit One cutting cycle is defined as the combination of one 6-inch forward t Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cycles 44 -box type devices.	istant vertical o	N/A downward force o Results (Pass/Fail) Fcil Results (Pass/Fail)	
N/A he testing agent a Sample No.	Firearm safety device tested without firearm. (8) Sawing Test hall accomplish a test using extanded carbon steel hads aw blade with ten pounds. The test shall consist of £20 cycles, wit One cutting cycle is defined as the combination of one 6-inch forward Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock (A) Normal firing position with the barrel horizontal/With the	i 32 teeeth per inch with a con h no time limit, by hand. and one 6-inch backward cutti Cyctes 44 -box type devices. ocking mechanism facing	istant vertical of ing motion.	N/A downward force o Results (Pass/Fail) Fcil Results (Pass/Fail) N/A	
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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 Ping Fulling 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 Ping Torque Test.

The key-switch **FAILED** the <u>Plug Pulling Test</u> 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 <u>Shock Test</u> 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.

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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 sorew was inserted into each lock ¼" 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  $\frac{1}{4}$ " 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 DOF 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 fone-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  $\frac{1}{4}$  to  $\frac{5}{8}$ -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  $\frac{1}{4}$  to  $\frac{5}{8}$ -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 flathcad 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 keyswitch 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** (utilize a new firearms safety device) (does not apply if test cannot be performed on the device). This test is described to test the ability of a firearms safety device's keyway, if so equipped, to withstand forque pressures. Install the firearms safety device in a rigid fixture such as a vise to support it firmly but not respect free rotation of the plug in the cylinder. Insert a screwdriver with the largest flat blade (nor to exceed 3/8 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 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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Figure 4. An image of the locking keyway after the completion of the torque testing procedure showing the damage done to the top portion of the tocking cylinder by the screwdriver bit.

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CONFIDENTIAL Remington Arms Company, Inc. Research and Development Technical Center Elizabethtown, Kentucky PRELIMINARY **Remington<sup>®</sup> Common F/C ISS Testing** (Integrated Security System) Per California D.O.J. Lock Regulat 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 Page 1 of 6 September 18, 2002 Marlin R. Jiranek, II Remington Project: 241328 Senior Research Engineer ET47660

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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 an 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 DOJ testing requirements for certification as a CA DOJ 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.

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Remington ISS Testing per the California DOJ Firearms Safety Device Regulations							
			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	Dron Testing (Firearms)	977.45 subsection d	Pass				
10	Drop Testing (Enclosures)	977.45 subsection e	N/A				
	Extended Shock Test		Pass				
	D. day day Come Treat		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  $\pm$  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 '4 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 bidy 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 will an 8 to 7 inch (203,253 cm) long screwdriver with a '4 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 wedged 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**



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# **APPENDIX 1 – LABORATORY TEST REPORT**

						Record No.	: FS	D302				
		This territy and		(5) Shack	e or Cable Cutt	ing Test				<b>]</b>		
		This less is desig	ned to determine the fire	earms safety device hand forces	realstance to cutting for a of 100 pounds force for	ces of 1,000 pour cables.	inds force fo	r solid metal	shackles or with			
		Sample No.	Fireard	Test Condition	sled with firearm	Max, Loa	d (lbf.)	Time (s.)	(Pass/Fail)			
		N/A	Fiream	salety device test	ed without firearm.	-			N/A			
		This heat is deale		(6)	Plug Pulling Te	<u>st</u>				1		
		THE OFFICE OFFICE	number 20 diam deep. Apply a raqu	neter drill bit and ins ruled lension of 225	and a putting action to dis art a saif tapping screw ( Dounds force sidally bet	slodge the plug i of size AB12 at i wean the case a	rom the cyli sast 0,75 in ind installed	nder. Drill ine ches screw.	keyway with a			
		Sample No.		Test Condition		Ma	x. Load (Ib	f.)	Results (Pass/Fall)			
		28	X Fiream	m safety device te safety device test	sted with firearm. ed without firearm.				P865		4 1. 1. 1.	
		This test is desig	ned to lest the ability of a	(7) ] a firearms safety de	Plug Torque Te: vice's keyway, if so equi with the	<u>Bt</u> pped, to withstan	nd torqua pr	essures, inse	nt a screwdriver		83	٤
		Sample No.	nol to exceed 5/8 inch) t	Test Condition	eyway, so that a forque	icad of 89 pound	l oad (ibe	es can be eb	élied la the plug. Results		. <sup>1</sup> 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
			X Fiream	m safety device te	sted with firearm.		<u></u>	(in 1997) (in 1997)	(Pass/Fail)			
1		2a	Firearm	safety device test	ed without firearm.				Pasa	and the second		
		The testing agent	shall accomplish a lost force of ten	((using a standard ca pounds. The test si	3) Sawing Test roon sized fizickaaw blad hall consist of 120 cycles	e with 32 tooth p , with ac time lin	ier inch with hit by hand	a constant w	initial downward			
		Sample No.	Ine cutting cycle is defin	Test Condition	on of one 6-Inch (prwind	and one Sylnch	backwahd a	äting motion.	Results			
. –		28.49	X Fireard	Tisalety device test	sted with firearm.		120		(PBSS(Fail)			
			1435 144 (435 24)			ľ	120		F 699			
		Sample No.	16X 	lions (Calline (F)	do not apply to lock	-box type dev	lces.		Results			
	12 Conver		(A) Normal Gring po	sillon with the bar	rel horizontal/With the	locking mach	anlsm faci	ng directly	<u>(Pass/Feil)</u> Poss			
		97. 6 2. 1933 1935 - 1934	(B) Upside down w	nth the barrel hort	zontal/With the locking	g mechanism f	acing direc	tly down.	Pass			
, gar 2000 2000 2000 2000		·** 2.94 <b>0, 440</b> ********	(C) II	the tirearm is a hi (D) On the	andgun, on the grip wi muzzle with the barrol	th the barrel v I vertical.	ertical.		N/A Pass			
		16.99°		(E) On eithe	r side with the barrel h	norizontal.			Pass			
		REMARKS/NOT	(F) Exposed	hemmer or strike	r, otherwise on the rea	armost point of	the weep	n.	Pass	!		
	AN CONTRACT	(4) Sample 1a ter (6)(7) Due to FSE attained (keywa	== ked at 1m drop helghi ) design keyway could v size)	it 5 drops each, sa d not be drüled (ha	ample 3b tested at 1.5 ardend cylinder) and e	m drop holght 1 torque load o	and 5 drog f 89 invibs.	could not b	10 drops rod. 3			
		(8) Sample tester Firearm Used: Re	at cylinder lock on tri mington, medel 870 l	lgger guard behin Express Magnum	d trigger. 12 ga., S/N (a) B783	70XX & (b) D0	1809XX.					
		Sample Description This test was person reconciliant of the second secon	on: Internal locking mi arformed in accorda puirements and the	ince with the results property	Arnold/Childers	at trigger guard	i (plastic) t	Phone	r. 316-832-1600			
		reflect the perio	mance of the listed	d sample.	3448 N. Emporia,	Wichita, KS	67219	Fax	316-832-1602			
					Page 2 of 2							
			-,,,									
	<b>-</b>						-					
-												
_												
Ma	rlin R. Jiranek	;, II		Pa	ge 6 of 6				Septembe	er 18, 2	2002	
Ser	nior Research	Engineer						Rem	ington Projec	ct: 241	328	

ET47665



ET47666



Wichita, KS. 67219 Fax 316-832-1602

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  $S^{th}$ , 2002 that caused the device to fail.

You advised us that you would accept the test results from the September 17<sup>th</sup> 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 17<sup>th</sup>, 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,

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Richard Mouser President

Cc: Dale R. Danner, Remington Arms

United States Test Comfidential	
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 required by California Penal Code Sections 12088 a	(USTL) conducted Firearm Safety Device test(s) as and Regulation Section 977.45, Chapter 12.6, Division 1
Title 11, California Code of Regulations.	
The results of those tests are outlined below.	Decuite
Model	Port 20 100 100 100
870 Express Magnum Plastic Trigger Guard	Pace with the state
The test results indicate that the samples submitted above. This conclusion is based on the samples tested and and/or performance of llevices of the same or similar United States Test Laboratory does not certify or er Safety Devices have limitations and note that any sy time, energy and tools. USTL is not liable for any in	net the requirements of the test specifications as noted should not be interpreted as an assurance that the quality far design or materials will meet these requirements. endorse this product. USTL emphasizes that Firearm such device can be defeated through the utilization of 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,

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i. North

Richard Mouser

**Richard Mouser** 

President

Attachment: California Compliance Test Report

ET47668

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## 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 Re	ference Number/Identifier	FSD302	I	Date Submitted:	1/10/03	
Certified Firea	rms Safety Device Laboratory		United States Tes	t Laboratory		83
Address:	3448 N. Emporia					, e,
	Wichita, KS 67219				#!> 	
Name and Tele	ephone Number of the DOJ-Ce	rtified Labo	ratory staff person	to be contacted rega	rding	
this report: Richard W. Me	ouser, 316-832-1668					
Date of Test:	9/17/02		<del>j/-</del>	Time of Test: 130	00-1500	
 Location(s) of	Test, including any off-site loc	cations:	USTL			
			· · · · · · · · · · · · · · · · · · ·	······		
Name(s) and T Branden Arnol	itle(s) of laboratory staff who d: Lab Technician	conducted ar	nd/or performed the	e required testing:		
<u>~~</u>			<u> </u>			
Name(s) and by procedure:	usiness affiliations of all perso	ons who have	witnessed any part	t of the testing		
Marlin Jiranek	of Remington					
				- ,		
						ł

		FIREARMS SAFETY	DEVICE MODEL INFORMATION:	
Fi <b>rea</b> rms	Safety Device	Type (check one): Extern	nal: Internal:	Integral: X
Make:	Remington			
Modei:	870 Expres	s Magnum Plastic Trig	ger Guard	
Construc	tion Material	(s) (e.g., steel, alloy, et	c.): <u>Plastic</u>	
Tested of	n which firea Type: Make(s) and M	rm(s) Handgun: Revolver Longgun: Shotgun Other: Iodel(s): <u>Remingt</u> Barrekter	Pistol X Rifle On, model 870 Express Magnum	83
		PRIMED C	CASE INFORMATION	
s Frimed C	ase Used:	Manufacturer:	Federal	
		Primer:	Federal	
incapable	No primed c of accepting	ase was used. (When cartridges)	firearms safety device is properly ins	stalled, firearm is

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COMPLIANCE TEST REPORT
_ABORATORY REFERENCE NUMBER: FSD302

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4

Firearms	Safety Device Submitted by:	Remington
Address	315 W. Ring Rd., Elizabethto	own, KY 42701
Country:	USA	
Contact	Person: <u>Marlin Jiranek</u>	Phone Number: 270-769-7645
The four	fireerme eefety devices have a	TEST RESULTS
Chapter	12.6. Division 1. Title 11. Califc	price Code of Regulations. With a check mark, indicate that the
firearms	safety device passed a specific	c test. If a test was not applicable, indicate so with N/A
V	(4) Disking on require dation to	
X	(1) Picking or manipulation te	esi
X	(2) Forced removal inspection	n
N/A	_(3) Tensile test	
X	_(4) Shock test	
NIA	(5) Shadele or nonle outting to	est. In addition, provide measurements and a description, or
11/2 <del>4</del>	measurements and a diagram	n, of where the shackle and/or cable was attacked.
X.	_(6) Plug pulling test- If the sel	If tapping screw was not inserted at least 3/4-inch as described
	in the testing procedure, prov	vide the depth to which the self tapping screw was inserted
je set set set set set set set set set se	and explain why it was not ins	serted at least 3/4-inch.
X	(7) Plug torque test	
X	(8) Sawing test- in addition, p	provide measurements and a description, or measurements and rms safety device was attacked
	a diagram, or where the mean	
	(9) Drop test	

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ET47671

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Page 3

### COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD302

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.

(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 pits of hammer.

(2) By preventing the action or cylinder from closing.

(3) By preventing the mamber(s) from accepting or holding a cartridge.

(4) By preventing access to the firearm.

(d) The firearms safety device is capable of repeated use

X The testee device meets all of the above standards.

I deplare under penalty of perjury according to the laws of the State in which this report was report and Attachment A are true and complete.

Signature:

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

Date: 1/10/03

ET47672

Page 4

### UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

	Date Received	: 9/16/02	Record No:	FSD302		
	Via:	Fed Ex	Test Date:	9/17/02		
	Returned Via:	Fed Ex	Customer:	Remington		
	<u>Sample</u>		Sample Dimensi	ons		
	Manufacturer:	Remington	Body Height:	 N/A	l in.	
	Lock Type:	Integral	Body Width:	N/A	lin.	
	Key Type:	Key-Other	Body Depth:	N/A	Vin.	
	Model:	870 Express Magnum	Shackle/Cable Dia	a.: N/A	in.	
	Serial/Lot:		Shackle/Cable Le	ngth: N/A	vin.	
	rest spec.:	California Litle 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 us in the key	se of paper clips (jumbo /way for two minutes ea	size), paper clips (#1 size ch.	e), and small s	crewdrivers that fi
		Combination locks shall r	esist manual manipulat	ion for two minutes.		
	Sample No.	Test Condition		Tool	Times as	Results (Pass/Fail)
		X Firearm safety device test	ed with firearm.	jumbo paper clip	2 2	
	1a	Firearm safety device tester	d without firearm.	#1 paper clip	2	Res
				1.4 mm screwdriver	.2	Pass
				2x. 65. 5.	110	
		(2) Forced	Removal Insp	ection		
	Inspect the firearm	and firearms safety device to determine if the from the firearm through the partial de	firearms safety device struction of the firearm	is of such a design that it with common household	may not be dis tools.	sabled or removed
	Sample No.	Des	critition/Explanation	Ϋ́́ε.		Results (Pass/Eail)
		X Firearm safety device does	not appear that it ma	y be disabled through t	the partial	
	1a	Firearm safety device appear	s that it may be disat	pled through the partial	destruction	Pass
	্	of the fire	arm with common ho	usehold tools.		
	a 1984 be a Anna anna an anna an					
		(3)	<b>Tensile Test</b>			
	This test is designed	d to test the strength of the firearm safety dev	rice utilizing a pulling ac	tion. Apply 225 pounds fo	nce slowly alo	og the central axis
28 E/		Without interfering or giving support to either	afety device locking cou	nponents poports of the firegroup of	fotu daviao	
	Samete No.	Test Condition	are mading locking com	ponents of the meaning sa	nety device.	Results
200 5555 2017 2017 2017	All Carries Teo.	Eiroarm asfaty davias tast	od with fire or		or.)	(Pass/Fail)
634. ***************		Firearm safety device test	eu with lifearn.			
			without lifearm.	-		N/A
		(4	Shock Test			
	This test is design	ed to test the firearms safety device and locki	ng mechanism ability to	withstand shock. Using t	he shock impa	ct fixture, drop a
	the freedom -	2.2 pound weight from a distance of	one 39.4 inches + 0.4 i	nches five times to the top	oof	•
	the threarms s	ately device body aligned to impinge and pene Additionally using the shock impact	trate the locking keywa	y or combination lock using weight from a distance	ng a chucked b	lade-type tool.
1	3	9.4 inches + 0.4 inches five times to the top o	f the firearms safety dev	/ice body using a chucked	or steel rod tool	
	Sample No.	Test Condition		Tool	Drops	Results
	··	X Firearm safety device test	ed with firearm	hlade	10	<u>(Pass/Fail)</u>
	1a, 3b	Firearm safety device tester	without firearm	rod	15	Pass
				100		Pass

Page 1 of 2

ET47673

-	(5) Shackle or Cable Cutti	ng Test		
This test is desi	gned to determine the firearms safety device resistance to cutting force hand forces of 100 pounds force for	es of 1,000 pounds force : cables.	for 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
This test is des	( <u>6) Plug Pulling Tes</u>	it Induc the alter from the co		- transmiring
	number 20 diameter drill bit and insert a self tapping screw of	size AB12 at least 0.75 in	nches	e keyway willi a
	deep. Apply a required tension of 225 pounds force axially betw	veen the case and installe	d screw.	Resulte
Sample No.	Test Condition	Max. Load (I	bf.)	(Pass/Fail)
	X Firearm safety device tested with firearm.			
2a	Firearm safety device tested without firearm.	-		Pass
·····				
This test is doci	(7) Plug Torque Tes	<u>t</u>		
i nia test is desig	uned to test the ability of a firearms safety device's keyway, it so equip with the	ped, to withstand torque p	nessures. Inse	ent a screweilive
largest flat blade	(not to exceed 5/8 inch) that will fit into the keyway, so that a torque to	oad of 89 pounds force-inc	chesican be ap	plied to the plu
Sample No.	Test Condition	Max   oad (lbs	e/in	Results
	Y Firearm safety davice tested with firearm		3/III./:34 · 72	(P <u>ass/</u> Fail)
2a	Firearm safety device tested with meaning			Deen
				Fass
· · · · · · · · · · · · · · · · · · ·				
The testing agen	t shall accomplish a test using a standard carbon shell hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward	th a constant ve d. cutting motion.	ertical downward
The testing agen	t shall accomplish a test using a standard carbon steel had saw blade force of ten pounds. The test shall consist of 120 cycles. One cutting cycle is defined as the combination of one 6-inch forward a Test Condition	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles	th a constant ve d. cutting motion.	Results
The testing agen	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm.	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles	th a constant ve d. cutting motion.	ertical downwan Results (Pass/Fail)
The testing agen Sample No.	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm.	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles 120	th a constant ve d. cutting motion.	ertical downward Results (Pass/Fail) Pass
The testing agen	t shall accomplish a test using a standard carbon steel had saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm.	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles 120	th a constant ve d. cutting motion.	Results (Pass/Fail) Pass
The testing agen	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Filearm safety device tested without firearm. Drop Test	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles 120	th a constant ve d. cutting motion.	Results (Pass/Fail) Pass
The testing agen	t shall accomplish a test using a standard carbon steel har saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward Cycles 120 box type devices.	th a constant ve d. cutting motion.	Results (Pass/Fail) Pass Results (Page (Fail)
The testing agen Sample No. 2a, 4a Sampte No.	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Filearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward o Cycles 120 box type devices. locking mechanism fac	th a constant ve d. cutting motion.	Results (Pass/Fail) Pass Results (Pass/Fail) Base
The testing agen Sample No. 2a, 4a Sampte No.	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition     X     Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     Drop Test     Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the logicing (B) Upside down with the barrel horizontal/With the logicing	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward o Cycles 120 box type devices. locking mechanism fac	th a constant ve d. cutting motion. sing directly	Results (Pass/Fail) Pass Results (Pass/Fail) Pass
The testing agen Sample No. 2a, 4a Sampte No.	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition     X     Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     Drop Test     Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the up.     (B) Upside down with the barrel horizontal/With the locking     (C) If the firearm is a bondary on the gin with	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire	th a constant ve d. cutting motion. sing directly actly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass
The testing agen Sample No. 2a, 4a Sampte No.	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition     X     Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     Firearm safety device tested without firearm.     Drop Test     Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical.	th a constant ve d. cutting motion. Sing directly ectly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A
The testing agen Sample No. 2a, 4a Sampte No. 4a, 4b	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition     X     Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     Drop Test     Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizon term is a barrel with the barrel (E) On either side with the barrel horizon term is a complexitor of the barrel horizon term is a barrel with the barrel horizon term is a barrel hori	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. tocking mechanism fac mechanism facing dire in the barrel vertical. vertical.	th a constant ve d. cutting motion. sing directly ectly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass N/A
The testing agen Sample No. 2a, 4a Sampte No. 4a, 4b	t shall accomplish a test using a standard carbon steel har saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition     X     Firearm safety device tested with firearm.     Firearm safety device tested without firearm.     Drop Test     Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizon term is a barrel barrel horizon term	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal.	th a constant ve d. cutting motion. cing directly ectly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sample No. 4a, 4b	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Filearm safety device tested without firearm. Filearm safety device tested without firearm. Comp Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the up. (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizon the barrel (E) On either side with the barrel horizon the barrel horizon the combination (F) Exposed hammer or striker, otherwise on the rear	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap	th a constant ve d. cutting motion. cing directly ectly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sampte No. 4a, 4b	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Filearm safety device tested without firearm. Filearm safety device tested without firearm. Comp Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel ho (F) Exposed hammer or striker, otherwise on the rear ES	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap	th a constant ve d. cutting motion. Sing directly actly down.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sample No. 4a, 4b REMARKS/NOT (4) Sample 1a te (6)(2) Due to FSI	t shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition X. Firearm safety device tested with firearm. Filearm safety device tested without firearm. Filearm safety device tested without firearm. (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel ho (F) Exposed hammer or striker, otherwise on the rear ES sted at 1m drop height 5 drops each, sample 3b tested at 1.5m Design keyway could not be drilled (bardend ordinder) and a	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. Iocking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap in drop height and 5 drop	th a constant ve d. cutting motion. cing directly ectly down. con.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sample No. 4a, 4b 4a, 4b <u>REMARKS/NOT</u> (4) Sample 1a te (6)(7) Due to FSI attained (keywa	It shall accomplish a test using a standard carbon steel harksaw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition           X         Firearm safety device tested with firearm.           Efferance         Drop Test           Sections (C) thru (F) do not apply to lock-           (A) Normal firing position with the barrel horizontal/With the locking           (B) Upside down with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (D) On the muzzle with the barrel horizontal/With the barrel horizontal	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rrmost point of the weap in drop height and 5 dro torque load of 89 in/lbs	th a constant ve d. cutting motion. cutting motion. cutting directly ectly down. coon.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass Pas
The testing agen Sample No. Za, 4a Sample No. 4a, 4b Aa, 4b REMARKS/NOT (4) Sample 1a te (6)(7) Due to FSI attained (keywa (8) Sample teste	It shall accomplish a test using a standard carbon steel harks wiblade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition           X         Firearm safety device tested with firearm.           Elevation         Drop Test           Bit earm safety device tested without firearm.         Elevation of the firearm safety device tested without firearm.           Bit earm safety device tested without firearm.         Drop Test           Sections (C) thru (F) do not apply to lock-         (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel to (E) On either side with the barrel to (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker (F) Exposed hammer or (F) Exposed hammer or (F) Exposed hamme	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap n drop height and 5 drop torque load of 89 in/lbs	th a constant ve d. cutting motion. cutting motion. cutting directly ectly down. cotly down. coon.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sample No. 4a, 4b 4a, 4b <u>REMARKS/NOT</u> (4) Sample 1a te (6)(7) Due to FSI attained (keywa 8) Sample teste Firearm Used: R Sample Descript	It shall accomplish a test using a standard carbon steel han saw blade force of ten pounds. The test shall consist of 120 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition           X         Test Condition           X         Firearm safety device tested with firearm.           Elearm safety device tested without firearm.         Drop Test           Sections (C) thru (F) do not apply to lock-           (A) Normal firing position with the barrel horizontal/With the locking           (B) Upside down with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) On either side with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (E) On either side with the barrel horizontal at the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (D) On the muzzle with the barrel horizontal at the barrel horizontal/With the locking           (E) On either side with the barrel horizontal at the barrel horizontal at the barrel horizontal at the barrel horizon the provide at 1.5m           D design keyway could not be drilled (hardend cylinder) and a tay size).         d at cylinder lock on trigger guard behind trigger.           emington, model 870 Express Magnum, 12 ga., S/N (a) B7837         B7837	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism face mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap n drop height and 5 drop torque load of 89 in/lbs	th a constant ve d. cutting motion. cutting motion. cutting directly ectly down. coon.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass
The testing agen Sample No. 2a, 4a Sample No. 4a, 4b 4a, 4b <u>REMARKS/NOT</u> (4) Sample 1a te (6)(7) Due to FSI attained (keywa (8) Sample teste Firearm Used: R Sample Descript This test was p	It shall accomplish a test using a standard carbon steel hap saw blade force of ten pounds. The test shall consist of 720 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition           X         Firearm safety device tested with firearm.           Elearm safety device tested without firearm.         Drop Test           Sections (C) thru (F) do not apply to lock-           (A) Normal firing position with the barrel horizontal/With the locking           (B) Upside down with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) Upside down with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (E) On either side with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) Upside down with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) On either side with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) On the muzzle with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) On either side with the barrel horizontal/With the locking           (C) If the firearm is a handgun, on the grip with           (B) On either side with the barrel horizontal/With the locking           (C) If the firearm is	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. Iocking mechanism fact mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap in drop height and 5 dro torque load of 89 in/lbs	th a constant ve d. cutting motion. cutting motion. cutting motion. cutting motion. cutting motion. cons directly ectly down. coon.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass Pas
The testing agen Sample No. 2a, 4a 2a, 4a 3 3 4a, 4b 4a, 4b	It shall accomplish a test using a standard carbon steel harks w blade force of ten pounds. The test shall consist of 720 cycles, One cutting cycle is defined as the combination of one 6-inch forward a Test Condition           X         Firearm safety device tested with firearm.           Image: Steel and the	with 32 teeth per inch wit with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the weap in drop height and 5 dro torque load of 89 in/lbs 0XX & (b) D01809XX. t trigger guard (plastic) Laboratory Wichita, KS, 67210	th a constant ve d. cutting motion. cutting motion. cutting motion. cutting motion. cutting motion. cons directly actly down. con.	Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas

Confidential - Subject to Protective Order Williams v. Remington

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### 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 Re	ference Number/Identifier	FSD322		Date Submi	itted:	1/10/03	
	Certified Firea	rms Safety Device Laborator	у	United Stat	es Test Laborato	ny s		83
	Address:	3448 N. Emporia	<u></u>	ي. <sup>44</sup> د مد.				
	Name and Tele this report:	ephone Number of the DOJ-C	ertified Labo	ratory staff p	erson to be conta	acted regar	ding	
	Date of Test:	Test, including any off-site lo	ocations:	USTL	Time of 7	Test: <u>080(</u>	0-1000	
	Name(s) and T	itle(s) of laboratory staff who	conducted a	nd/or perform	ned the required	testing:		
2₩ <b>6</b> 2	Branden Arnol	d and Chad Childers; Lab Te	chnicians					
	Name(s) and b procedure:	usiness affiliations of all pers	ons who have	witnessed ar	iy part of the test	ting		
	Marlin Jiranek	of Remington						
							_	

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD322 FD 033 (Rev. 10-01)	Page 2
FIREARMS SAFETY DEVICE MODEL INFORMATION	1:
Firearms Safety Device Type (check one): External: Internal:	Integral: X
Make: Remington	
Model: 870 Express Magnum Aluminum Trigger Guard	
Construction Material(s) (e.g., steel, alloy, etc.): <u>Aluminum</u>	
Tested on which firearm(s) Type: Handgun: RevolverPistol Longgun: ShotgunXRifie Other:	83
Firearms Make(s) and Model(s): <u>Remington, model 870 Express Magnum</u> Caliber(s): <u>12 gauge</u> Barrel Length(s): <u>28"</u> PRIMED CASE INFORMATION	
 Primer: Federal	
No primed case was used. (When firearms safety device is properly incapable of accepting cartridges)	r installed, firearm is

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COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD322 FD 033 (Rev. 10-01)

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Page 3

FIREARMS SAFELY DEVICE MANUFACTURER OR DEALER INFORMATION	
Firearms Safety Device Submitted by: Remington	
Address: <u>315 W. Ring Rd., Elizabethtown, KY 42701</u> Country: <u>USA</u>	
Contact Person: Marlin Jiranek Phone Number: 270-769-7645	
Function       Provide the start of the sta	83

#### COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD322 FD 033 (Rev. 10-01)

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	PD 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. (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.
	<ul> <li>(2) If a key locking system, the key locking system shall be unique to the manufacturers' firearms safety device(s)).</li> </ul>
	(b) The firearms safety device renders the firearm inoperable (unable to fire) while the firearms safety device is properly installed.
	<ul> <li>( c)The firearms safety device functions by at least one of the following methods (<i>please indicate all applicable methods</i>):</li> <li>X (1) By blocking travel of the trigger, striker, thing pin, or hammer.</li> <li>(2) By preventing the action or cylinder from closing.</li> </ul>
	<ul> <li>(3) By preventing the chamber(s) from accepting or holding a cartridge.</li> <li>(4) By preventing access to the firearm.</li> <li>(d) The firearms cafety device is capable of repeated use.</li> </ul>
	X The tested device meets all of the above standards.
, ABE 0	executed that all statements made in this report and Attachment A are true and complete.
	Name/Title (Printed): Richard W. Mouser, President
_	Date: 1/10/03

### UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

	Date Received:	1/7/03	Record No:	FSD322		
	Via:	Fed Ex	Test Date:	1/9/03		
	Returned Via:	Fed Ex	Customer:	Remington		
	<u>Sample</u>		Sample Dimensi	ions		
	Manufacturer:	Remington	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 Di	ia.:	N/A in	
	Serial/Lot:	Aluminum	Shackle/Cable Le	enoth:	N/A in	
	Test Spec.:	California Title 11, Div. 1, Ch. 12.6	Weight:		N/A lbs.	
	Cylinders in the fire	(1) Picking	or Manipulati	ng Test	· · · · · · · · · · · · · · · · · · ·	
	-,	in the key	way for two minutes ea	o size), paper clips (#1 ach.	i size), and small s	creworivers that
		Combination locks shall r	esist manual manipulat	tion for two minutes.		
	Sample No.	Test Condition		Tool	Time 🤤	Results
		X Firearm safety device test	ed with firearm.	jumbo paper cli	ip 2 😒	Pass
	1	Firearm safety device tester	d without firearm.	#1 paper clip		Pass
	Į –			1 A rem coroude		Been
						F 455
		(2) Eoreod			<u>3. 305 _</u>	
	Inspect the firearm	and firearms safety device to determine if the from the firearm through the partial de	firearms safety device	is of such a design th	at it may not be dis	sabled or remove
	Sample No.	Des	cription/Explanation			Results
		Firearm-safety device does	not appear that it ma	ay be disabled throu	igh the partial	(Pass/Fail)
	1	destruction of the	ne filearm with comm	non household tools	- · 5.	Deer
		of the fire	arm with common ho	bied through the pai busehold tools.	rtial destruction	Pass
		19 Youtan and any and a second se				
		and the second				
		(3)	Tensile Test			
	This test is designed	(3) d to test the strength of the firearm safety dev	Tensile Test	ction. Apply 225 pound	ds force slowly alo	no the central av
<u>Sing</u>	This test is designed	(3) d to test the succept of the firearm safety dev of the firearms s	Tensile Test rice utilizing a pulling ac afety device locking co	ction. Apply 225 pount	ds force slowly alo	ng the central ax
Sing.	This test is designe	(3) d totest the streagth of the firearm safety dev of the firearms s without interfering or giving support to either	Tensile Test ice utilizing a pulling ac afety device locking co the mating locking com	ction. Apply 225 pount imponents inponents of the firearm	ds force slowly alo	ng the central ax
	This test is designed	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com	ction. Apply 225 pound imponents iponents of the firearm Max. Loa	ds force slowly alo ns safety device. nd (lbf.)	ng the central ax
r heg	This lest is designed Sample No.	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com	ction. Apply 225 pount imponents iponents of the firearm Max. Loa	ds force slowly alo ns safety device. nd (lbf.)	ng the central ax Results (Pass/Fail)
Librer E	Thistest is designer	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition Firearm safety device test	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm.	ction. Apply 225 poun mponents iponents of the firearm Max. Loa	ds force slowly alo ns safety device. Id (Ibf.)	ng the central axi Results (Pass/Fail)
ring Serif	Thistest is designe Sa <b>mple No</b>	(3) d totest the strength of the firearm safety dev of the firearms s without interfering or glving support to either Test Condition Firearm safety device test Firearm safety device tested	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm.	ction. Apply 225 pount imponents inponents of the firearm Max. Loa	ds force slowly alo ns safety device. Id (lbf.)	ng the central ax Results (Pass/Fail) N/A
un an	This test is designe Sample No. N/A	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or glving support to either Test Condition Firearm safety device test Firearm safety device test (4)	Tensile Test ice utilizing a putling ac afety device locking co the mating locking com ed with firearm. d without firearm.	ction. Apply 225 poun imponents iponents of the firearm Max. Loa	ds force slowly alo ns safety device. nd (lbf.)	ng the central axi Results (Pass/Fail) N/A
u in the second	This test is designe Sample No. N/A This test is design	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or glving support to either Test Condition Firearm safety device test Firearm safety device test (4) ed to test the firearms safety device and locki	Tensile Test ice utilizing a putling ac afety device locking co the mating locking com ed with firearm. d without firearm.	ction. Apply 225 pount imponents iponents of the firearm Max. Loa	ds force slowly alon ns safety device. nd (lbf.)	ng the central axi Results (Pass/Fail) N/A
1944 g	This test is designe Samole No. N/A This test is designe	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or glving support to either Test Condition Firearm safety device test Firearm safety device test (4) ed to test the firearms safety device and locki 2.2 pound weight from a distance of	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test ng mechanism ability to one 39.4 inches + 0.4	ction. Apply 225 pount imponents ponents of the firearm Max. Loa	ds force slowly alon ns safety device. Id (Ibf.)	ng the central ax Results (Pass/Fail) N/A act fixture, drop a
50 km gr 8 km gr	This test is designe Samole No. N/A This test is design the firearms sa	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or glving support to either Test Condition Firearm safety device test Firearm safety device test (4) ed to test the firearms safety device and locki 2.2 pound weight from a distance of fifety device body aligned to impinge and pene	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test ng mechanism ability to one 39.4 inches + 0.4 etrate the locking keywa	ction. Apply 225 pount imponents inponents of the firearm Max. Loa Max. Loa withstand shock. Us inches five times to the ay or combination lock	ds force slowly alo ns safety device. Id (Ibf.)	ng the central ax Results (Pass/Fail) N/A act fixture, drop a blade-type tool.
ring Marij	This test is designed Sample No. N/A This test is designed the firearms sa	(3) d totest the strength of the firearm safety dev of the firearms s without interfering or glvIng support to either Test Condition Firearm safety device test Firearm safety device tested (4) ed to test the firearms safety device and locki 2.2 pound weight from a distance of fifety device body aligned to impinge and pene Additionally, using the shock impact	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test ing mechanism ability to one 39.4 inches + 0.4 i strate the locking keywa t fixture, drop a 2.2 pou	o withstand shock. Us inches five times to the ay or combination lock and weight from a dista	ds force slowly alo ns safety device. Id (lbf.) 	ng the central ax Results (Pass/Fail) N/A act fixture, drop a plade-type tool.
	This test is designed Sample No. N/A This test is designed the firearms sa	(3) d totest the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition Firearm safety device test Firearm safety device test (4) ed to test the firearms safety device and locki 2.2 pound weight from a distance of fifety device body aligned to impinge and pene Additionally, using the shock impac 0.4 inches + 0.4 inches five times to the top o	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test ng mechanism ability to one 39.4 inches + 0.4 i etrate the locking keywa t fixture, drop a 2.2 pou f the firearms safety de	ction. Apply 225 pount imponents inponents of the firearm Max. Loa Max. Loa withstand shock. Us inches five times to the ay or combination lock and weight from a dista- vice body using a church	ds force slowly alo ns safety device. Id (Ibf.) ing the shock impa e top of using a chucked to ance of cked steel rod tool	ng the central axi Results (Pass/Fail) N/A act fixture, drop a plade-type tool.
Ling Haris	This test is designed Sample No. N/A This test is designed the firearms sa 33 Sample No.	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition Firearm safety device test Firearm safety device test (4) ad to test the firearms safety device and locki 2.2 pound weight from a distance of fifety device body aligned to impinge and pene Additionally, using the shock impac 0.4 inches + 0.4 inches five times to the top o Test Condition	Tensile Test ice utilizing a putiling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test ng mechanism ability to one 39.4 inches + 0.4 etrate the locking keywa t fixture, drop a 2.2 pou f the firearms safety de	tion. Apply 225 pount mponents ponents of the firearm Max. Loa Max. Loa Max. Loa withstand shock. Us inches five times to the ay or combination lock and weight from a dista vice body using a chur Tool	ds force slowly alon ns safety device. Id (Ibf.) ing the shock imparent to using a chucked bance of cked steel rod tool Drops	ng the central axi (Pass/Fail) N/A act fixture, drop a blade-type tool. Results (Pass/Fail)
Likey,	This test is designed N/A This test is designed the firearms set Sample No.	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition Firearm safety device test Firearm safety device test (4) ad to test the firearms safety device and locki 2.2 pound weight from a distance of fifety device body aligned to impinge and pene Additionally, using the shock impact 0.4 inches + 0.4 inches five times to the top o Test Condition X Firearm safety device test	Tensile Test ice utilizing a putiling ac afety device locking con the mating locking com- ed with firearm. a without firearm. b Shock Test one 39.4 inches + 0.4 one 39.4 inches + 0.4 etrate the locking keywa fithe firearms safety de ed with firearm.	ction. Apply 225 pount imponents inponents of the firearm Max. Loa withstand shock. Us inches five times to the ay or combination lock ay or combination lock und weight from a dista vice body using a chue Tool blade	ds force slowly ato as safety device. Id (lbf.) - - - - - - - - - - - - -	ng the central axi (Pass/Fail) N/A act fixture, drop a plade-type tool. Results (Pass/Fail) Pass
	This test is designed Sample No. N/A This test is designed the firearms sa Sample No.	(3) d to test the strength of the firearm safety dev of the firearms s without interfering or giving support to either Test Condition Firearm safety device test Firearm safety device test (4) ed to test the firearms safety device and lock 2.2 pound weight from a distance of fifety device body aligned to impinge and pene Additionally, using the shock impac 0.4 inches + 0.4 inches five times to the top o Test Condition X Firearm safety device test Firearm safety device test	Tensile Test ice utilizing a putling ac afety device locking co the mating locking com ed with firearm. I without firearm. Shock Test one 39.4 inches + 0.4 etrate the locking keywa t fixture, drop a 2.2 pou f the firearms safety de ed with firearm.	ction. Apply 225 pount imponents inponents of the firearm Max. Loa withstand shock. Us inches five times to the ay or combination lock ind weight from a dista vice body using a chue Tool blade rod	ds force slowly alor ns safety device. Id (lbf.) 	ng the central axi (Pass/Fail) N/A Act fixture, drop a blade-type tool. (Pass/Fail) Pass Pass

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· · · · · · · · · · · · · · · · · · ·	(5) Shackle or Cable C. H.	a Toet		
This test is desig	ned to determine the firearms safety device resistance to cutting force	<u>IQ LEST</u> is of 1.000 pounds force f	or solid metal :	shackles or wit
	hand forces of 100 pounds force for c	ables.		
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
		· · · · · · · · · · · · · · · · · · ·		
This test is desired	(6) Plug Pulling Tes	<u>t</u>		
This lest is desig	number 20 diameter drill bit and insert a self tapping screw of	odge the plug from the cyl size AB12 at least 0.75 in	linder. Drill the Iches	e keyway with a
	deep. Apply a required tension of 225 pounds force axially betw	een the case and installed	d screw.	
Sample No.	Test Condition	Max. Load (It	of.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.			<u>[Fass/Fai</u>
2	Firearm safety device tested without firearm.	-		Pass
	(7) Plug Torque Tes		298 298 298	
This test is desig	ned to test the ability of a firearms safety device's keyway, if so equipp	= ped, to withstand torgue p	ee ressures. Inse	ert a screwdrive
	with the	A STATE		a the second
largest flat blade (	not to exceed 5/8 inch) that will fit into the keyway, so that a torque lo	ad of 89-pounds force-inc	hes can be ap	plied to the plu
Sample No.	Test Condition	Max. Load (lbs	s/in.) 🖏 🚆	Results
	X Firearm safety device tested with firearm.			1 133/1 20
	A SW	$(\mathbf{a}) = (-\frac{1}{2}\mathbf{x})^2 + (-\frac{1}{2}\mathbf{x})^2$		
2	Firearm safety device tested without firearm.	14. AAA 62		Pass
2 The testing agent	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles.	with 32 teeth per inch with	h a constant ve	Pass
2 The testing agent	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combination of one 6-inch forward a	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward o	h a constant ve I. cutting motion.	Pass ertical downwar
2 The testing agent C Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles	h a constant ve I. cutting motion.	Pass ertical downwar Results (Pass/Fail)
2 The testing agent C Sample No.	Firearm safety device tested without firearm. (8) Sawing. Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, me cutting cycle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles	h a constant ve J. cutting motion.	Pass ertical downwar Results (Pass/Fail)
2 The testing agent C Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120	h a constant ve I. cutting motion.	Pass ertical downwar Results (Pass/Fail) Pass
2 The testing agent C Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120	h a constant ve I. cutting motion.	Pass ertical downwar Results (Pass/Fail) Pass
2 The testing agent Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120	h a constant ve J. cutting motion.	Pass ertical downwar Results (Pass/Fail) Pass
2 The testing agent C Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-l	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 00x type devices.	h a constant ve	Pass ertical downwar Results (Pass/Fail) Pass Results (Pass/Fail)
2 The testing agent Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 120 500x type devices. ocking mechanism fac	h a constant ve I. sutting motion.	Pass ertical downwar Results (Pass/Fail Pass Results (Pass/Fail Pass
2 The testing agent Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (B) Unside down with the barrel horizontal/With the locking	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 120 box type devices. ocking mechanism fac	h a constant ve l. cutting motion.	Pass ertical downwar Results (Pass/Fail Pass Results (Pass/Fail Pass
2 The testing agent Sample No.	Firearm safety device tested without firearm. (8) Sawirig. Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 20 20 20 20 20 20 20 20 20 20 20 20 2	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwa Results (Pass/Fail Pass Results (Pass/Fail Pass Pass
2 The testing agent Sample No. 2 Sample No.	Firearm safety device tested without firearm. (8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. ocking mechanism fac mechanism facing dire in the barrel vertical.	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwa Results (Pass/Fail Pass Results (Pass/Fail Pass Pass N/A
2 The testing agent Sample No.	Firearm safety device tested without firearm.  (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel to	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. ocking mechanism fac mechanism facing dire in the barrel vertical. vertical.	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwa Results (Pass/Fail Pass Results (Pass/Fail Pass Pass N/A Pass
2 The testing agent Sample No.	Firearm safety device tested without firearm. (8) Sawirig. Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal with the barrel horizontal (E) On either side with the barrel horizontal (E) Con either side with the barrel horizontal (E) C) Con either side with the barrel horizontal (E) Con either side with the barrel horizontal (E) Con either side with the barrel horizontal (E) C) Con either side with the barrel horizontal (E) C) Con either side with the barrel horizontal (E) C)	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 2000 type devices. ocking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal.	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwa Results (Pass/Fail Pass Results (Pass/Fail Pass Pass N/A Pass Pass Pass
2 The testing agent Sample No. 2 Sample No.	Firearm safety device tested without firearm.  (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cyste is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizon the barre	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. ocking mechanism fac mechanism facing dire in the barrel vertical. vertical. orizontal. most point of the weap	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwar Results (Pass/Fail Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
2 The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI	Firearm safety device tested without firearm.  (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip witt (D) On the muzzle with the barrel horizontal to the barrel horizontal (F) Exposed hammer or striker, otherwise on the rear	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 Dox type devices. ocking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap	h a constant ve l. cutting motion. ing directly ctly down.	Pass ertical downwar Results (Pass/Fail Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
2 The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSE attained (keyway	Firearm safety device tested without firearm.  (8) Sawirig. Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm.  Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel hor (F) Exposed hammer or striker, otherwise on the rear  Section keyway could not be drilled (hardend cylinder) and a fisize).	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 Dox type devices. The barrel vertical. vertical. vertical. most point of the weap	ing directly ctly down.	Pass ertical downwar Results (Pass/Fail Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass
2 The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSE attained (keyway Firearm Used: Re Sample No.	Firearm safety device tested without firearm.  (8) Sawirig. Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel hor (F) Exposed hammer or striker, otherwise on the rear ES O design keyway could not be drilled (hardend cylinder) and a lisize). Emington, model 870 Express Magnum, 12 ga., S/N (a) B4001	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 20 20 20 20 20 20 20 20 20 20 20 20 2	h a constant ve sutting motion. ing directly ctly down. non.	Pass ertical downwa Results (Pass/Fail Pass Results (Pass/Fail Pass Pass N/A Pass Pass Pass Pass Pass
2 The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSI attained (keyway Firearm Used: Re Sample Descripti This test was performed to the set of	Firearm safety device tested without firearm.         (8) Sawing Test         shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combinator of one 6-inch forward a 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.         Drop Test         Sections (C) thru (F) do not apply to lock-l         (A) Normal firing position with the barrel horizontal/With the locking         (C) If the firearm is a handgun, on the grip with         (B) Upside down with the barrel horizontal/With the locking         (C) If the firearm is a handgun, on the grip with         (B) On either side with the barrel to         (C) If the firearm is a handgun, on the grip with         (E) On either side with the barrel to         (F) Exposed hammer or striker, otherwise on the rear         ES         O design keyway could not be drilled (hardend cylinder) and a size).         on internal locking mechanism consisting of a cylinder lock at erformed in accordance with the	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 00x type devices. 00king mechanism fac mechanism facing dire in the barrel vertical. vertical. orizontal. most point of the weap torque load of 89 in/lbs 4XX & B36525XX. trigger guard (aluminu	h a constant ve i utting motion. ing directly ctly down. ctly down.	Pass ertical downwar Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass Pass N/A Pass Pass Pass Pass Pass Pass
2 The testing agent Sample No. 2 Sample No. 3 <b>REMARKS/NOTI</b> (6)(7) Due to FSE attained (keyway Firearm Used: Re Sample Descripti This test was per specification rec	Firearm safety device tested without firearm.  (8) Sawing Test shall accomplish a test using a standard carbon step hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cysle is defined as the combinator of one 6-inch forward a Test Condition Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip witt (D) On the muzzle with the barrel hor (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer or striker, otherwise on the rear (F) Exposed hammer consisting of a cylinder lock at arington, model 870 Express Magnum, 12 ga., S/N (a) B4001 on: Internal locking mechanism consisting of a cylinder lock at aringtor made and the results property (D) And States Test (D) And And Childers (D) And And Chi	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 5000 type devices. 120 5000 type devices. 1	ing directly ctly down. could not be m) behind tri	Pass ertical downwar Results (Pass/Fail) Pass Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass Pas

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Vial.	ed: 1/7/03	Record No:	FSD320			
Returned Vi	Fed EX	Test Date:	1/9/03 Dominator			
		Customer:	Remington			
<u>Sample</u>		Sample Dimens	sions			
Manufacture	r: Remington	Body Height:		N/A ir	า.	
Lock Type:	Internal	Body Width:		N/A ir	٦.	
Key Type:	Special	Body Depth:		N/A ir	п.	
Serial/Lat	870 Exp. Mag.	Shackle/Cable E	Dia.:	N/A ir	า.	
Test Spec.:	California Title 11 Div 1 Ch 126	Weight	.engin:	N/AII	1. ne	
		Weight.		110/22 11	53.	
	(1) Pickin	g or Manipulat	ing Test			
Cylinders in the	firearms safety device shall resist picking with in the k	use of paper clips (jurni serveav for two minutes i	bo size), paper clips ( each	(#1 size),	and small so	rewdrivers that
	Combination locks sha	Il resist manual manipul	ation for two minutes			10. 10. 10.
Sample No	Test Condition		Tool		Time 🔬	Results
	X Firearm safety device to	sted with firearm	jumbo paper	clie:	<u>(min.)</u>	(Pass/Fail)
1	Firearm safety device test	tod without froorm	fundo paper			Pass
		teo without mearm.	#Tpaper.et	io i		- Hess
L		·	1.4 mm screwe	anver	<u></u> 2	Pass
	(2) Force	d Removatins	nection :	<u>-965</u> 1665	124 - 199 1997 -	
Inspect the fire	arm and firearms safety device to determine if t	he firearms safety devic	e is of such a design	that it ma	ay not be dis	abled or remove
	from the firearm inrough the partial	destruction of the firebr	m with common house	sehold too	lls.	Results
Sample No	·	escription/Explanatio	n 🔆			(Pass/Fail)
	X Firearm safety device doe	s not appear that it i	hay be disabled thr	ough the	e partial	
1	Eirearm safety device anon	ore the instant wat con	abled through the	OIS. Portici de	atruction	Doce
		tearm with common l	nousehold tools.	Janual ue	surucuon	1 000
L						
,日本中国美国。 日本学习4月1日(1993) - 小学生		3) Tensile Test				
(法許)"	gned to test the strangth of the firearm safety d	levice utilizing a pulling	action. Apply 225 po	unds forc	e slowly alor	ig the central a:
This des	of the firearms	s safety device locking (	components	-		
This des	24 E-	er me maung locking co	imponents of the firea	arms sale	ty device.	Results
This des	without interfering or giving support to eith		1		\ <u></u>	11004110
This des	Without interfering or giving support to eith Tost Condition		Max. L	oad (lbf.	)	(Pass/Fail)
This dest is des Sample No	Without interfering or giving support to either Tost Condition Firearm safety device te	ested with firearm.	Max. L	oad (lbf.	)	(Pass/Fail)
This area to des	Without interfering or giving support to eith         Tost Condition         Firearm safety device test         Firearm safety device test	ested with firearm. ted without firearm.	Max. L	oad (lbf.	)	(Pass/Fail) N/A
Thiskest is des Sample No N/A	Without interfering or giving support to eithe Tost Condition Firearm safety device te Firearm safety device test	ested with firearm. Red without firearm.	Max. L	oad (lbf.	)	(Pass/Fail) N/A
This test is des	Without interfering or giving support to eith Tost Condition Firearm safety device test Firearm safety device test Signed to test the firearms safety device and log	ested with firearm. ted without firearm. 4) Shock Test cking mechanism ability	to withstand shock.		shock impa	(Pass/Fail) N/A
This test is des	without interfering or giving support to eith Tost Condition Firearm safety device test Firearm safety device test signed to test the firearms safety device and loc 2.2 pound weight from a distance	ested with firearm. ted without firearm. 4) Shock Test cking mechanism ability of one 39.4 inches + 0.	to withstand shock. 4 inches five times to	Using the	shock impa	(Pass/Fail) N/A
This dest is des Sample No N/A This test is de the firearm		ested with firearm. ted without firearm. <b>4) Shock Test</b> cking mechanism ability of one 39.4 inches + 0. enetrate the locking key	to withstand shock. 4 inches five times to way or combination lo	Using the top o pock using	) shock impa f a chucked b	(Pass/Fail) N/A ct fixture, drop : lade-type tool.
This test is des Sample No N/A This test is de the firearm	Without interfering or giving support to eith Tost Condition Firearm safety device test Firearm safety device test Second State	ested with firearm. ted without firearm. (4) Shock Test cking mechanism ability of one 39.4 inches + 0. enetrate the locking key act fixture, drop a 2.2 p of the firearms safety of	to withstand shock. 4 inches five times to way or combination lo ound weight from a di device body using a c	Using the the top o ock using istance of	shock impa f a chucked b	(Pass/Fail) N/A ct fixture, drop ; lade-type tool.
This dest is des Sample, No N/A This test is de the firearn Sample No	Without interfering or giving support to eith Tost Condition Firearm safety device test Firearm safety device test Signed to test the firearms safety device and loc 2.2 pound weight from a distance s safety device body aligned to impinge and per Additionally, using the shock imp 39.4 inches + 0.4 inches five times to the top Test Condition	ested with firearm. ted without firearm. <b>4) Shock Test</b> cking mechanism ability of one 39.4 inches + 0. enetrate the locking key act fixture, drop a 2.2 p o of the firearms safety of	to withstand shock. 4 inches five times to way or combination to bund weight from a di device body using a c	Using the the top o bock using istance of hucked s	shock impa f a chucked b teel rod tool. Drops	(Pass/Fail) N/A ct fixture, drop a lade-type tool. Results
This dest is des Sample No N/A This test is de the firearn Sample No		ested with firearm. ted without firearm. <b>4) Shock Test</b> Cking mechanism ability of one 39.4 inches + 0. enetrate the locking key act fixture, drop a 2.2 p of the firearms safety of sted with firearm	to withstand shock. 4 inches five times to way or combination lo bund weight from a di device body using a c Tool	Using the the top o bock using istance of hucked si	shock impa f a chucked b teel rod tool. Drops	(Pass/Fail) N/A ct fixture, drop : lade-type tool. (Pass/Fail)
This test is des Sample No N/A This test is de the firearm Sample No		ested with firearm. And without firearm. <b>4) Shock Test</b> Cking mechanism ability of one 39.4 inches + 0. enetrate the locking key act fixture, drop a 2.2 p o of the firearms safety in ested with firearm.	to withstand shock. 4 inches five times to way or combination lo bund weight from a di device body using a c Tool blade	Using the the top o ock using istance of hucked st	shock impa f a chucked b teel rod tool. Drops 5	(Pass/Fail) N/A ct fixture, drop lade-type tool. Results (Pass/Fail) Pass

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		(5)	Shackle or Cable Cuttin	ng Test		
	This test is desig	ned to determine the firearms saf	ety device resistance to cutting force and forces of 100 pounds force for c	es of 1,000 pounds force f	or solid metal s	shackles or with
	Sample No.	Test C	Condition	Max. Load (lbf.)	Time (s.)	Results (Pass/Fail)
		Firearm safety	device tested with firearm.			
	N/A	Firearm safety de	evice tested without firearm.	-	-	N/A
	[		(6) Plug Pulling Tes	t		
	This test is desi	ned to test a cylinder lock's ability number 20 dlameter drill l deep. Apply a required tens	y to withstand a pulling action to dislibit and insert a self tapping screw of ion of 225 pounds force axially betw	– odge the plug from the cy size AB12 at least 0.75 ir een the case and installed	linder. Drill the iches d screw.	keyway with a
	Sample No.	Test C	Condition	Max. Load (I	of.)	Results (Pass/Fail)
		X Firearm safety	device tested with firearm.			
	2	Firearm safety de	evice tested without firearm.	-		Pass
			(7) Plug Torguo Too	*		<u>.</u>
	This test is desig	ned to test the ability of a firearms	safety device's keyway, if so equipp	L bed, to withstand torque p	رية (Sources Street) Ressures Street	rf a screwidriv <b>er</b>
			with the	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		Ser Par
	largest flat blade	not to exceed 5/8 inch) that will fit	into the keyway, so that a torque lo	ad of 89 pounds force-inc	heş can be apı	olied to the plug.
	Sample No.	Test C	Condition 👘	Max. Load (lbs	s/in.)	Results (Pass/Fail)
		X Firearm safety	device tested with firearm.		- 60°	
	2	Eiroarm cafoty de	a la de la provincia de		1	
			evice tested without firearm.	тану айту. 1624-ра		Pass
	r		evice rested without irrearm.			Pass
			(8) Sawing Test			
	The testing agent	shall accomplish a test using a si	(8) Sawing Test andard carbon steel hacksaw blade The test shall consist of 120 cycles	with 32 teeth per inch with	h a constant ve	Pass rtical downward
	The testing agent	shall accomplish a test using a st force of ten pounds of ne cutting cycle is defined as the	(8) Sawing Test andard carbon steel hacksaw blade The test shall consist of 120 cycles, combination of one 6-inch forward a	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward o	h a constant ve	Pass
	The testing agent	shall accomplish a test using a force of ten pounds in cutting cycle is defined as the Test C	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, pombination of one 6-inch forward a condition	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles	h a constant ve I. cutting motion.	Pass rtical downward Results
	The testing agent	shall accomplish a test using a si force of ten pounds ne cutting cycle sidefined as the Test C	(8) Sawing Test (8) Sawing Test (1) Sawing Tes	with 32 teeth per inch with with no time limit, by hand und one 6-inch backward o Cycles	h a constant ve I. cutting motion.	Pass rtical downward Results (Pass/Fail)
	The testing agent Control Control Cont	shall accomplish a test using a si force of ten pounds ine cutting cycle Sidefined as the Test C Firearm safety de Filearm safety de	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, combination of one 6-inch forward a condition device tested with firearm. evice tested with firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward o Cycles	h a constant ve l. utting motion.	Pass rtical downward Results (Pass/Fail) Fail
	The testing agent	shall accomplish a test using a single of the pounds force of the pounds ine cutting cycle is defined as the Test C	(8) Sawing Test andard carbon spel hacksaw blade The test shall condist of 120 cycles, combination of one 6-inch forward a condition device tested with firearm. evice tested without firearm.	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward o Cycles 120	h a constant ve	Pass rtical downward Results (Pass/Fail) Fail
新語	The testing agent	shall accomplish a test using a si force of ten pounds ne cutting cycle sidefined as the Test C X Firearm safety de	(8) Sawing Test and ard carbon spel hacksaw blade The test shall consist of 120 cycles, combination of one 6-inch forward a condition device tested with firearm. evice tested without firearm. Drop Test	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward o Cycles 120	h a constant ve l. cutting motion.	Pass rtical downward Results (Pass/Fail) Fail
	The testing agent Sample No. 2 Sample No.	shall accomplish a test using a st force of ten pounds ne cutting cycle is defined as the Test C X Firearm safety de Sections (C)	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, bombitation af one 6-inch forward a condition device tested with firearm. evice tested with firearm. Drop Test thru (F) do not apply to lock-t	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward o Cycles 120	h a constant ve	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail)
	The testing agent	shall accomplish a test using a si force of ten pounds ine cutting cycle is defined as the Test C Firearm safety de Fitearm safety de Sections (C) (A) Normal firing position wit	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, combination of one 6-inch forward a condition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-th h the barrel horizontal/With the l	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 120 box type devices.	h a constant ve	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass
	The testing agent Sample No.	shall accomplish a test using a si force of ten pounds ne cutting cycle sidefined as the Test C X Firearm safety de Etearm safety de Sections (C) (A) Normal firing position wit (B) Unside down with the ba	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, combination at one 6-inch forward a condition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-th h the barrel horizontal/With the lup.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 120 box type devices. locking mechanism fac	h a constant ve l. .utting motion. ing directly	Pass ertical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass
	The testing agent Sample No. 2 Sample No.	shall accomplish a test using a st force of ten pounds ne cutting cycle is defined as the Test C X Firearm safety de Sections (C) (A) Normal firing position wit (B) Upside down with the ba (C) If the firear	(8) Sawing Test andard carbon spel hacksaw blade The test shall consist of 120 cycles, combination of one 6-inch forward a condition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-th h the barrel horizontal/With the l up. arrel horizontal/With the locking the cycle area of the origo with	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire	h a constant ve l. cutting motion. ing directly ctly down.	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass
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	The testing agent Sample No. 2 Sample No.	shall accomplish a test using a si force of ten pounds ine cutting cycle is defined as the Test C X Firearm safety de Sections (C) (A) Normal firing position wit (B) Upside down with the ba (C) If the firear (D	(8) Sawing Test andard carbon steel hacksaw blade The test shall consist of 120 cycles, combination at one 6-inch forward a ondition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-t h the barrel horizontal/With the lup. arrel horizontal/With the locking rm is a handgun, on the grip with ) On the muzzle with the barrel horizon	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical.	h a constant ve	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass
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	The testing agent	shall accomplish a test using a single force of ten pounds force of ten pounds in e cutting cycle is defined as the Test C Firearm safety of Sections (C) (A) Normal firing position with the bac (C) If the firear (D (E) (F) Exposed hammer	(8) Sawing Test andard carbon speel hacksaw blade The test shall condist of 120 cycles, combination of one 6-inch forward a oridition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-t h the barrel horizontal/With the locking m is a handgun, on the grip with ) On the muzzle with the barrel ho or striker, otherwise on the rear	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap	h a constant ve i. cutting motion. ing directly ctly down.	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
in in the second	The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI	shall accomplish a test using a single cutting cycle is defined as the Test C X Firearm safety de Filearm safety de Sections (C) (A) Normal firing position with the bac (C) If the firear (D) (F) Exposed hammer	(8) Sawing Test andard carbon seel hacksaw blade the test shall consist of 120 cycles, combination at one 6-inch forward a ondition device tested with firearm. evice tested without firearm. <b>Drop Test</b> thru (F) do not apply to lock-th h the barrel horizontal/With the lup. arrel horizontal/With the locking rm is a handgun, on the grip with ) On the muzzle with the barrel ho on either side with the barrel ho or striker, otherwise on the rear	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap	h a constant ve	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
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	The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSI attained (keyway (8) Fiream dische	shall accomplish a test using a sinforce of ten pounds ine cutting cycle is defined as the Test C X Firearm safety de Etearm safety de Sections (C) (A) Normal firing position wit (B) Upside down with the ba (C) If the firear (D (E) (F) Exposed hammer S design keyway could not be size). rged during 2 min. manipulation	Image: Constraint of the second with quit inferent.         (8) Sawing Test         tandard carbon speel hacksaw blade         The test shall consist of 120 cycles,         combination at one 6-inch forward a         condition         device tested with firearm.         avice tested with firearm.         avice tested with firearm.         Drop Test         thru (F) do not apply to lock-tested horizontal/With the locking         the barrel horizontal/With the locking         rm is a handgun, on the grip with         On either side with the barrel horizontal/With the locking         or striker, otherwise on the rear         drilled (hardend cylinder) and a form after Sawing Test.	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap	h a constant ve cutting motion. ing directly ctly down. ion.	Pass ertical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
	The testing agent Sample No. 2 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSI attained (keyway (8) Fiream discha Firearm Used: Re Sample Description	shall accomplish a test using a state of the pounds increating cycle is defined as the Test C X Firearm safety of Firearm safety of Sections (C) (A) Normal firing position with (B) Upside down with the ba (C) If the firear (D (E) (F) Exposed hammer S design keyway could not be size). rged during 2 min. manipulation mington, model 870 Express on Internal locking mechanics	(8) Sawing Test     (a) Sawing Test     (b) Sawing Test     (c) Sawing Test     (	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. Tocking mechanism fac mechanism facing dire in the barrel vertical. vertical. brizontal. most point of the weap torque load of 89 in/lbs	ing directly ctly down.	Pass ertical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
	The testing agent Sample No. 2 Sample No. 3 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSI attained (keyway (8) Fiream discha Firearm Used: Re Sample Descripti This test was po	shall accomplish a test using a stafforce of ten pounds ine cutting cycle is defined as the Test C X Firearm safety de Firearm safety de Sections (C) (A) Normal firing position with (B) Upside down with the ba (C) If the firear (D (E) (F) Exposed hammer Section accordance with termal locking mechanism inform, model 870 Express on: Internal locking mechanism	(8) Sawing Test     (andard carbon speel hacksaw blade     The test shall condition of 120 cycles,     combination of one 6-inch forward a     ondition     device tested with firearm.     Drop Test     thru (F) do not apply to lock-t h the barrel horizontal/With the locking rm is a handgun, on the grip with     On either side with the barrel ho     on either side with the barrel ho     on after Sawing Test.     Magnum, 12 ga., S/N (a) B4001- n consisting of a cylinder lock at     hthe Arnold/Childers	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap torque load of 89 in/lbs 4XX & B36525XX.	h a constant ve cutting motion. ing directly ctly down. oon. . could not be behind trigge	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass
	The testing agent Sample No. 2 Sample No. 3 Sample No. 3 REMARKS/NOTI (6)(7) Due to FSL attained (keyway (8) Firearn Used: Re Sample Descripti This test was pe specification rec	shall accomplish a test using a single cutting cycle is defined as the Test C X Firearm safety de Filearm safety de CA) Normal firing position with (B) Upside down with the bac (C) If the firear (D) (A) Normal firing position with the bac (C) If the firear (D) (F) Exposed hammer (D) (F) Exposed hammer (D) Sections (C) (F) Exposed hammer (D) (F) Exposed hamm	(8) Sawing Test andard carbon seel hacksaw blade The test shall consist of 120 cycles, combination at one 6-inch forward a ondition device tested with firearm. evice tested without firearm. Drop Test thru (F) do not apply to lock-th h the barrel horizontal/With the locking rm is a handgun, on the grip with ) On the muzzle with the barrel horizontal/With the barrel horizon the rear on either side with the barrel horizon the rear drilled (hardend cylinder) and a find the barrel horizon the rear drilled (hardend cylinder) and a find the barrel horizon the rear brone file (hardend cylinder) and a find the barrel horizon the rear drilled (hardend cylinder) and a find the barrel horizon the rear brone file (hardend cylinder) and a file barrel horizon the rear brone file barrel horizon the rear drilled (hardend cylinder) and a file barrel horizon the file barrel horizon the horizon the rear brone file barrel horizon the rear drilled (hardend cylinder) and a file barrel horizon the file barrel horizon the horizon the file barrel horizon the hori	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 120 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. most point of the weap torque load of 89 in/lbs 4XX & B36525XX. trigger guard (plastic) Laboratory	h a constant ve cutting motion. ing directly ctly down. ion. . could not be behind trigge Phone	Pass rtical downward Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

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## ET47684



### UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

Date Received	: 1/7/03	Record No:	FSD321		
Via:	Fed Ex	Test Date:	1/9/03		
Returned Via:	Fed Ex	Customer:	Remington		
Sample		Sample Dimer	nsions		
Manufacturer:	Remington	Body Height:		N/A in.	
Lock Type:	Internal	Body Width:		N/A in.	
Key Type:	Special	Body Depth:		N/A in.	
Model:	597 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.	
Cylinders in the fir	(1) Picking earms safety device shall resist picking with u in the ke Combination locks shall	g or Manipula use of paper clips (jur eyway for two minutes resist manual manip	nting Test nbo size), paper clips s each. ulation for two minute	(#1 size), and s s.	mall screwdrivers that fi
Sample No.	Test Condition		Tool	Tir Li (m	ne Results in All (Pass/Eail) -
	X Firearm safety device tes	sted with firearm.	jumbo pape	r clip 🕄 🗄	2 Pass

#1 paper clip Pass Firearm safety device tested without firearm. 1 2 1.4 mm screwdriver Pass (2) Forced Removal Inspection Y.S. 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 Description/Explanation Sample No. (Pass/Fail) Firearct safety device does not appear that it may be disabled through the partial Х destruction of the firearm with common household tools. Pass irearm safety device appears that it may be disabled through the partial destruction 1 i i of the firearm with common household tools. ្ទដ👬 1997 - Miles 1997 - Miles 1997 - Miles 1997 - Miles (3) Tensile Test a string to test the strength of the firearm safety device utilizing a pulling action. Apply 225 pounds force slowly along the central axis This fest is designed 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 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 Sample No. Test Condition Tool Drops (Pass/Fail) 5 Х Firearm safety device tested with firearm. blade Pass

Page	1	of	2

Firearm safety device tested without firearm.

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Confidential - Subject to Protective Order Williams v. Remington

rod

5

Pass



	(5) Shackle or Cable Cuttir	na Test		
This test is desig	ned to determine the firearms safety device resistance to cutting force	s of 1,000 pounds force for	or solid metal s	hackles 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 desig	ned to test a cylinder lock's ability to withstand a pulling action to disk number 20 diameter drill bit and insert a self tapping screw of	odge the plug from the cyl size AB12 at least 0.75 in	linder, Drill the iches	keyway with a
	deep. Apply a required tension of 225 pounds force axially between	een the case and installed	d screw.	Results
Sample No.	Test Condition	Max. Load (It	of.)	(Pass/Fail)
	X Firearm safety device tested with firearm.			
2	Firearm safety device tested without firearm.			Pass
			<u>. 1</u> 99 - 40	<u> </u>
This test is desig	ned to test the ability of a firearms safety device's keyway, if so equipp	ed, to withstand toroee p	ressures. Inse	nt a screwddive
	with the	411. 411. #466. 148. 421.	ing Seat	Sandin Asi
largest flat blade (	not to exceed 5/8 inch) that will fit into the keyway, so that a torque to	ad of 69 pounds force-inc	hes can be ap	plied to the plu
Sample No.	Test Condition	Max. Load (lbs	s/in.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.			(1_000/1_01/
2	Firearm safety device tested without firearm.	1		<b>D</b>
		and the second s	1	Pass
				Pass
[	(8) Sawing Tast		1	
The losting agent	(8) Sawing Test	13	<u> </u>	Pass
The testing agent	(8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles,	with 32 teeth per inch with	h a constant ve	Pass ertical downwar
The lesting agent	(8) Sawing Test shall accomplishe test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is befored as the combination of one 6-inch forward a	with 32 teeth per inch with with no time limit, by hand und one 6-inch backward o	h a constant ve J. cutting motion.	Pass
The testing agent	(8) Sawing Test shall accomplishe test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles	h a constant ve d. cutting motion.	Pass ertical downwar Results (Pass/Fail)
The testing agent	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting oycle is the fined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles	h a constant ve 1. cutting motion.	Pass ertical downwal Results (Pass/Fail
The testing agent	(8) Sawing Test shall accomplishe test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is defined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60	h a constant ve d. cutting motion.	Pass ertical downwar Results (Pass/Fail Fail
The testing agent	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting oxcle is defined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60	h a constant ve	Pass ertical downwar Results (Pass/Fail) Fail
The lesting agent	(8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is the fined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60	h a constant ve 1. cutting motion.	Pass ertical downwar Results (Pass/Fail Fail
The testing agent	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall-poinsist of 120 cycles, one cutting orcle is theread as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60	h a constant ve	Pass ertical downwar Results (Pass/Fail Fail Results
The testing agent Sample No. 2 Sample No.	(8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting oycle is defined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 60 box type devices. locking mechanism fac	h a constant ve	Pass ertical downwa Results (Pass/Fail Fail Results (Pass/Fail
The lesting agent	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is tested as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-f (A) Normal firing position with the barrel horizontal/With the up.	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism fac	h a constant ve 1. cutting motion.	Pass ertical downwa Results (Pass/Fail Fail Results (Pass/Fail Pass
The testing agent	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall-poinsist of 120 cycles, one cutting cycle is topped as the combination of one 6-inch forward a Test Condition	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire	h a constant ve d. cutting motion. cing directly ectly down.	Pass ertical downwar (Pass/Fail Fail Results (Pass/Fail Pass Pass
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The testing agent C Sample No. 2 Sample No.	(8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting oycle is theread as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the up. (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel to barrel the barrel the barrel to barrel the barrel to barrel the barrel to barrel the barre	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire h the barrel vertical. vertical.	h a constant ve	Pass ertical downwa Results (Pass/Fail Fail Results (Pass/Fail Pass Pass N/A Pass
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The testing agent Sample No. 2 Sample No.	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall-poinsist of 120 cycles, one cutting cycle is tested as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal (F) Exposed hammer or striker, otherwise on the rear	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire h the barrel vertical. vertical. prizontal. rmost point of the weag	h a constant ve d. cutting motion. cing directly ectly down.	Pass ertical downwar Results (Pass/Fail Fail Results (Pass/Fail Pass Pass N/A Pass Pass Pass Pass Pass
The testing agent Sample No. 2 Sample No. 3 REMARKS/NOT	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall definisist of 120 cycles, one cutting oycle is defined as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel ho (E) On either side with the barrel ho (F) Exposed hammer or striker, otherwise on the rear	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism faci mechanism facing dire h the barrel vertical. vertical. prizontal. rmost point of the weap	h a constant ve	Pass ertical downwar (Pass/Fail Fail Results (Pass/Fail Pass Pass N/A Pass Pass Pass Pass
The lesting agent C Sample No. 2 Sample No. 3 REMARKS/NOT (6)(7) Due to FSI otherio d (in	(8) Sawing Test shall accomplish a test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting cycle is tested as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock-I (A) Normal firing position with the barrel horizontal/With the up. (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel to (E) On either side with the barrel to (F) Exposed hammer or striker, otherwise on the rear Es D design keyway could not be drilled (hardend cylinder) and a	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire h the barrel vertical. vertical. orizontal. rmost point of the weag torque load of 89 in/lbs	h a constant ve i. cutting motion. Sing directly ectly down. pon.	Pass ertical downwar Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass
The lesting agent Sample No. 2 Sample No. 3 REMARKS/NOT (6)(7) Due to FSI attained (keyway Firearm Used: R	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall consist of 120 cycles, one cutting oycle is tested as the combination of one 6-inch forward a Test Condition Test Condition Test Condition Test condition Terearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the up. (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal (C) if the firearm is a handgun, on the grip with (E) On either side with the barrel horizontal (C) and the barrel horizontal (C) if the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal (C) if the firearm is a handgun, on the grip with (E) On either side with the barrel horizontal harrel horizontal (C) if the firearm or striker, otherwise on the rearel (E) D design keyway could not be drilled (hardend cylinder) and a size). emington, model 597 Magnum, 22 LR, S/N (a) 291089XX & 25	with 32 teeth per inch with with no time limit, by hand and one 6-inch backward of Cycles 60 box type devices. locking mechanism faci mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the wear torque load of 89 in/lbs 04891XX.	h a constant ve i. cutting motion. cutting motion. cu	Pass ertical downwar Results (Pass/Fail Fail Results (Pass/Fail Pass Pass N/A Pass Pass Pass Pass Pass
The lesting agent Sample No. 2 Sample No. 3 REMARKS/NOT (6)(7) Due to FSI attained (keyway Firearm Used: R Sample Descript	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall-poinsist of 120 cycles, one cutting oycle is tested as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (B) Upside down with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel hor (E) On either side with the barrel hor (F) Exposed hammer or striker, otherwise on the rear ES D design keyway could not be drilled (hardend cylinder) and a size). emington, model 597 Magnum, 22 LR, S/N (a) 291089XX & 20 on: internal locking mechanism consisting of a cylinder lock a	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the wear torque load of 89 in/lbs 94891XX. t trigger guard (plastic)	h a constant ve cutting motion. cutting motion. cing directly ectly down. pon. s. could not be behind trigge	Pass ertical downwar Results (Pass/Fail) Fail Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass Pas
The testing agent Sample No. 2 Sample No. 3 Sample No. 3 REMARKS/NOT (6)(7) Due to FSI attained (keyway Firearn Used: R Sample Descripti This test was po	(8) Sawing Test shall accomplished test using a standard carbon steel hacksaw blade force of ten pounds. The test shall-poinsist of 120 cycles, one cutting oycle is befored as the combination of one 6-inch forward a Test Condition X Firearm safety device tested with firearm. Firearm safety device tested without firearm. Drop Test Sections (C) thru (F) do not apply to lock- (A) Normal firing position with the barrel horizontal/With the locking (C) If the firearm is a handgun, on the grip with (D) On the muzzle with the barrel horizontal with the barrel for (E) On either side with the barrel horizont and the barrel horizont and the results on the real ES O design keyway could not be drilled (hardend cylinder) and a size). emington, model 597 Magnum, 22 LR, S/N (a) 291089XX & 295 on: Internal locking mechanism consisting of a cylinder lock are enformed in accordance with the purcents and the results properly United States Test	with 32 teeth per inch with with no time limit, by hand ind one 6-inch backward of Cycles 60 box type devices. locking mechanism fac mechanism facing dire in the barrel vertical. vertical. prizontal. rmost point of the wear torque load of 89 in/lbs 04891XX. t trigger guard (plastic)	h a constant ve 1. cutting motion. cutting mot	Pass ertical downwar Results (Pass/Fail Fail Pass Pass N/A Pass Pass Pass Pass Pass Pass Pass Pas

Page 2 of 2

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**BILL LOCKYER** Attorney General State of California DEPARTMENT OF JUSTICE



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:

Riske (sf

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 Blastic Trigger Guard met the minimum testing standards that were in place at the tinte 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 Safet 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 DOJapproved 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 (in the second 

BILL LOCKYER Attorney General State of California DEPARTMENT OF JUSTICE



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 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,

Ann Josta

STEVEN TEETERS, Analyst Firearms Information Services Section

For BILL LOCKYER Attorney General

Enclosure



United **States** Test Laboratory Confidential 7447 W. 33rd St. N. 316-832-1600 Wichita, KS. 67205 Fax 316-832-1602 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 Safety Device test(s) as required by California Penal Code Sections 12088 and Regulation Section \$77.45, Chapter 12.6 Division 1, Title 11, California Code of Regulations. The results of those tests are outlined below: Results Model 870 Express Plastic Two-Dot ISS Trigger Guard Pass vel de la caracita 870 Express Aluminum Two-Dot ISS Trigger Guard Pass 2011 1971  $\sim 2^{-27}$ The test results indicate that the samples submitted met the requirements of the test specifications as noted S. () 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 apporatory 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 mergy 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, mouser 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 Informatio	n	
	Laboratory Ro	eference Number/Identifier	FSD429	Date Submitted:	1/12/2008 83
	Certified Fire	arms Safety Device Laborate	ory <u>United St</u>	ates Test Laboratory	
	Address:	7447 W. 33rd St. N.			}, ₩ <sup>4</sup>
	Name and Tel this report: <u>Richard W, M</u>	lephone Number of the DOI-	Certified Laboratory staff	person to be contacted re	garding
	Date of Test:	11/12/2003 f Test, including any off-site	locations: <u>USTL</u>	Time of Test: 0	800-1145
	Name(s) and T Richard Mous Branden Arno	Fitle(s) of laboratory staff wher, President Id; Lab Technician	no conducted and/or perfor	rmed the required testing:	
	Name(s) and b procedure:	ousiness affiliations of all per	rsons who have witnessed	any part of the testing	
_	Marlin Jiranek	c; Remington Representative			

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FD 033 (Rev. 10-01)

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FSD429

	<b>.</b>		FIREARMS	SAFETY D	EVICE MC		NFORMA	TION:			
	Firearms	Safety Device 1	fype (check d	one): Externa	l: <u>X</u>	-	Internal:		Integrai:		-
	Make:	Remington							····· ,		-
	Model:	870 Express	Aluminum	Two-Dot IS	S Trigger (	Guard			<u> </u>		
	Construc	tion Material(	s) (e.g., stee	el, alloy, etc	.):	Trigge	r Guard: /	Aluminun	n; Trigger	: Steel;	
	Lock Bol	t: Steel								<u>, 3</u> 8	<b>3</b>
	Tested o	n which fireari Type:	m(s) Handgun: Longaun:	Revolver Shotaun		_Pistol				2017 - 2024 - 19 <u>6</u> 3	¢*"
	Firearms I	Make(s) and Ma	Other: odel(s):	Remingto	9,870 Ĕxp	vress	2.		· · · · · ·		
	Caliber(s)	<u>12 gauge</u>		Barrel Leng	yth(s):	28.0"					
				PRIMED C	ASE INFO	RMATIC	ИС				
	Primed C	ase Used:	Manufact	urer:	Fiocchi	i					
			Primer:		Fiocchi	i					
•	incapable	_No primed ca	ase was use cartridges)	ed. ( <i>When f</i> i	rearms sa	fety dev	vice is pro	perly ins	talled, fire	earm is	

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD429 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 Person: Marlin Jiranek

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Phone Number: 270-769-7645

Page 3

83

### 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 firearms 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

Shock test

N/A (5) Shackle or cable cutting test. In addition, provide measurements and a description, or measurements and a diagram, of where the shackle and/or cable was attacked. N/A (6) Plug pulling test- If the self tapping screw was not inserted at least 3/4-inch as described

(6) Plug pulling test- If the self tapping screw was not inserted at least 3/4-inch as described in the testing procedure, provide the depth to which the self tapping screw was inserted and explain why it was not inserted at least 3/4-inch.

N/A (7) Plug torque test

(8) Sawing test- In addition, provide measurements and a description, or measurements and a diagram, of where the firearms safety device was attacked.

X (9) Drop test

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, 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 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 manufacturer's' in firearms safety device(s)).

X (3) Other: Special "J" key (Male)

(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 following methods (please indicate all applicable methods):

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 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.

I declare under penalty of perjury according to the laws of the State in which this report was executed that all statements made in this report and Attachment A are true and complete.

Signature:

in the second second

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)



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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 I	nformation		
	Laboratory R	eference Number/Identifier	FSD428		Date Submitted:	11/12/2003
	Certified Fire	arms Safety Device Laborate	bry	United States	Test Laboratory	
	Address:	7447 W. 33rd St. N.				\$> <sup>*</sup>
		Wichita, KS 67205		125		
	Name and Tel	lephone Number of the DOI-	Certified Labor	atory staff pers	son to be contacted re	garding
	this report:	fourer 116-83-93600		2		
			e <sup></sup>			
,	Date of Test:				Time of Test: 0	80 <u>0-1145</u>
	funcation(stol	f Test_including any off-site	locations:	USTI		
27. 27. 27. 27. 27. 27. 27. 27. 27. 27.			rooutions.		· · · · · · · · · · · · · · · · · · ·	·····
ſŢĊ	Mana (a) and f	Title (-) - 6 le le constance - ete 66 - 1		1/. F.		
	Richard Mous	Title(s) of laboratory stall wr ser: President	no conducted an	d/or performed	a the required testing:	
	Branden Arno	old: Lab Technician				
	Name(s) and b procedure:	ousiness affiliations of all per	rsons who have	witnessed any	part of the testing	
	Marlin Jiranel	k; Remington Representative				
		<u></u>				<u> </u>

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FD 033 (Rev. 10-01)

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FSD428

i ii carini	s Safety Device	Type (check one): Extern	al: <u>X</u>	Internal:	Integral:	
Make:	Remington	<del> </del>				
Model:	870 Express	s Plastic Two-Dot ISS	Frigger Guard			
Constru	uction Material(	s) (e.g., steel, alloy, et	5.): <u>Tri</u> ç	ger Guard: Synthe	etic; Trigger: Steel;	<u>.</u>
Lock Bo	olt: Steel		<u></u>	.ct). 		9. <b>83</b>
Tested	on which firear Type:	m(s) Handgun: Revolver	Pist			
		Longgun: Shotgun Other:	X Rift		2	
Firearm	s Make(s) and M	odei(s): <u>Remingt</u>	on 870 Express	;		
Calibert	*): <u>12 gaug</u> e	Barrel Ler	igth(s): <u>28.</u>	0"		
	36°.	PRIMED C	ASE INFORM	ATION		
Primed	Case Used:	Manufacturer:	Fiocchi			
		Primer:	Fiocchi			
incapat	No primed of accepting	ase was used. (When cartridges)	firearms safety	device is properly	installed, firearm is	
)						

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COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD428 FD 033 (Rev. 10-01)

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# FIREARMS SAFETY DEVICE MANUFACTURER OR DEALER INFORMATION

Country	USA			
Contact	Person:	Marlin Jiranek		Phone Number: 270-769-7645
The four Chapter firearms X N/A N/A	firearms s 12.6, Divis safety dev (1) Picki (2) Force (3) Tens (4) Shoc (5) Shac measure (6) Plug in the tes and expl	TE safety devices have passed sion 1, Title 11, California C vice passed a specific test. Ing or manipulation test ed removal inspection le test k test k test kle or cable cutting test. In ments and a diagram, of w pulling test- If the self tappi sting procedure, provide the ain why it was not inserted	EST RESULTS the test as defined ode of Regulations if a test was not ap addition, provide m here the shackle a ing screw was not i a depth to which the at least 3/4-inch.	h in Regulations Section 977.45 With a chack mark, indicate that the plicable, indicate so with N/A.
<u>N/A</u>	_(7) Plug	torque test		
<u> </u>	_(8) Sawii a diagrar	ng test- In addition, provide n, of where the firearms sa	measurements an fety device was att	d a description, or measurements and acked.
X	_(9) Drop	test		
-				

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Page 3

COMPLIANCE TEST REPORT LABORATORY REFERENCE NUMBER: FSD428 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.

(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 manufacturer's firearms safety device(s)).

X (3) Other: Special "J" key (Male)

(b) The firearms safety device renders the firearm hoperable (unable to fire) while the firearms safety device is properly installed.

(c)The firearms safety device functions by at least one of the following methods (please indicate all applicable methods):

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 cartridge.

(A) By preventing access to the firearm.

d) The fire ims safety device is capable of repeated use.

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 executed that all statements made in this report and Attachment A are true and complete.

Signature:

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

Date: 11/12/03

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#### ...... - -UNITED STATES TEST LABORATORY Firearm Safety Device Test Summary

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	Date Received: Via:	11/11/03 UPS	Record No: Test Date:	FSD428 11/12/2003		
	Returned Via:	025	Customer:	Remington		
	Sample Manufacturer: Lock Type: Key Type: Model: Firearm Used: Test Spec.:	Remington Integral Special "J" (Male) 870 Express Plastic Two-Dot ISS Trigger Guard Remington, 870 Exp. 12 ga., 28" bbl. California Title 11, Div. 1, Ch. 12.6	Sample Dimension Body Length: Body Width: Body Depth: Shackle/Cable Dia Shackle/Cable Len Weight: Sample Description	<u>ons</u> N/ N/ A.: N/ ngth: N/ n: Trigge Trigge	A in. A in. A in. A in. A in. A Ibs. or Guard: Syr or: Steel; Loc	nthetic; k Bolt: Steel.
	Cylinders in the fire	(1) Picking earms safety device shall resist picking with us in the key Combination locks shall re	or Manipulatin e of paper clips (jumbo way for two minutes ead seist manual manipulati	<b>g Test</b> size), paper clips (#1 siz ch. on for two minutes.	e), and small so	crewdrivers that fit
	Sample No.	Test Condition		Tool	Time	Resultse 3
	1	X Firearm safety device tested	ed with firearm. Without firearm.	jumbo paper clip #1 paper clip	2	Pass Pass
	Remarks/Notes:	······································			200°	
	* Test could not b	e conducted due to minimal keyway dime	ension			
			Deine autoritation			
	Inspect the firearm	and firearms safety device to determine if the	firearms safety device i	s of such a design that it with common bousehold	may not be dis	abled or removed
	Sample No.	Des	cription/Explanation			Results
. (		Frearm safety device does r destruction of th	not appear that it may	y be disabled through on household tools.	the partial	(Pass/Fail)
		Firearm safety device appears	that it may be disab arm with common ho	led through the partia	destruction	Pass
	Remarks/Notes:					
	This test is designed	(3) d to test the strength of the firearm safety devi	Tensile Test	ion. Apply 225 pounds t	orce slowly alor	ig the central axis
		without interfering or giving support to either t	he mating locking com	onents of the firearms s	afety device.	
ſ	Sample No.	Test Condition		Max. Load (	bf.)	(Pass/Fail)
ľ		Firearm safety device teste	d with firearm.			
	N/A	Firearm safety device tested	without firearm.	-		N/A
	Remarks/Notes:					
		F	Page 1 of 3			

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Confidential - Subject to Protective Order Williams v. Remington

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a firearm. but firearm. sec. subsequent t able Cutting a to cutting forces of bunds force for cable offirearm. the firearm.	Tool blade rod to Shock Test (Pas f 1:010 poundsforce t es. Max Load (lbf)	Drops 5 5 s).	Results (Pass/Fail) Pass Pass Pass Pass Pass Pass Pass Pas
a firearm. sec. subsequent t able Cutting forces of sunds force for cable i firearm. ut firearm.	blade rod to Shock Test (Pas Test 1 1000 pounds force f es. Max Load (lbf.)	5 5 s). for sould metal Time (s.)	Pass Pass shackles or with Results (Pass/Fail) N/A
able Cutting able Cutting to cutting forces of sunds force for cable officearm.	rod to Shock Test (Pas Test f 1:010 poundsforce f es. Max Load (lbf)	5 s). for solid metal Time (s.)	Pass Pass Pass Pass Pass Pass Pass Pass
sec. subsequent t	to Shock Test (Pas Test 1.000 pounds force f Max. Load (lbf.)	s). for solid metal Time (s.)	shackles or with Results (Pass/Fail) N/A
e to cutting forces of <u>ounds force for cable</u> offrearm. Let firearm.	f 1:060 poundé force f es. Max Load (lbf;)	for solid metal Time (s.)	shackles <sup>:</sup> ör wit Results (Pass/Fail) N/A
firearm. Lit firearm.	Max Load (lbf.)	- <u>Time (s.)</u>	(Pass/Fail)
firearm.		-	N/A
ut firearm.	2		<u>N/A</u>
	94.		
ulling Test			
ng action to dislodge apping screw of size acce axially between to ads of manipulation we the keyway at the co	e the plug from the cy e AB12 at least 0.75 in the case and installer with an 8-10-inch long conclusion of the test.	rlinder. Drill the nches d screw. g screwdriver v	keyway with a with the largest the lar
	Max. Load (I	bf.)	(Pass/Fail)
ı firearm.			
ut firearm.			*
	ulling Test ng action to dislody apping screw of size orce axially between nds of manipulation the keyway at the firearm.	ulling Test         ng action to dislodge the plug from the cy         apping screw of size AB12 at least 0.75 in         price axially between the case and installends of manipulation with an 8-10-inch long         the keyway at the conclusion of the test.         Max. Load (In firearm.         put firearm.	ulling Test         ng action to dislodge the plug from the cylinder. Drill the apping screw of size AB12 at least 0.75 inches price axially between the case and installed screw.         nds of manipulation with an 8-10-inch long screwdriver we the keyway at the conclusion of the test.         Max. Load (lbf.)         n firearm.         put firearm.

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Record No.: FSD428

This test is	(7) P	lug Torque Tes	<u>st</u>	tand torque propuror	incert a
screwdriver with th	le largest flat blade (not to exceed 5/8 inch) th	hat will fit into the keyway applied to the plug.	b equipped, to withs by, so that a torque	load of 89 pounds for	ce-inches can b
Sample No.	Test Condition		Max. Lo	ad (Ibs/in.)	Results (Pass/Fail)
	X Firearm safety device tes	ted with firearm.		·····	
2	Firearm safety device teste	d without firearm.		-	*
Remarks/Notes:			• • • • • • • • • • • • • • • • • • •		
* lest could not b	be completed, due to minimal keyway di	mension.			
L	/8	Sawing Tost			
The testing agent	shall accomplish a test using a standard carl	bon steel hacksaw blad	e with 32 teeth per i	nch with a constant w	ertical downward
At the conclusion	force of ten pounds. The test sha of the sawing test, the testing agent shall m	all consist of 120 cycles	, with no time limit, I	by hand 😸 🕺 🦄	an aplatterrint to
	disable	the firearms safety devi			
Sample No.	Test Condition		್ಷೆಂದ	oles	(Pass/Fail)
	X Firearm safety device tes	ted with firearm.			11 a33/1 anj
2	Firearm safety device teste	d without firearm.		120	Pass
Remarks/Notes:		and the second s	12		
Sample tested be	ingenta. Adresses and a second	ತನ್ನಲ್ಲಿ ಎಂದಿಕ್ರಿಂಗ್			
logunbio (oprog pc	etween locking bolt and trigger.		14. 14.		
Manipulation con	ducted by hand at locking boilt and trigger.	er subsequent to Sav	ng Test for 15 se	ec. (Pass).	
Manipulation con	ducted by hand at locking bolt and trigger.	er subsequent to Saw	ing Test for 15 se	ec. (Pass).	
Manipulation con	ducted by hand at locking bolt and trigger.	er subsequent to Saw	hing Test for 15 se	ec. (Pass).	
Manipulation con	tween locking bolt and trigger.	er subsequent to Sav	ing Test for 15 se	ec. (Pass).	
Manipulation con	ducted by hand at locking bolt and trigger.	er subsequent to Sav Drop Test	ing Test for 15 se	ec. (Pass).	Results
Manipulation con	ducted by hand at locking bolt and trigger.	er subsequent to Sav Drop Test do not apply to lock	hing Test for 15 st	ec. (Pass). s.	Results (Pass/Fail)
Manipulation con	ducted by hand at locking bolt and trigger. Sections (C) thru (F) of (A) Normal firing position with the barr	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the	hing Test for 15 se -box type device locking mechani	ec. (Pass). s. sm facing directly	Results (Pass/Fail) Pass
Manipulation con	ducted by hand at locking bolt and trigger. ducted by hand at locking bolt and trigger <b>Sections (C) thru (F) o</b> (A) Normal firing position with the barrel horizon (B) Upside down with the barrel horizon	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking	hing Test for 15 st -box type device locking mechani	ec. (Pass). s. sm facing directly ng directly down.	Results (Pass/Fail) Pass Pass
Manipulation con	ducted by hand at locking bolt and trigger. ducted by hand at locking bolt and trigger <b>Sections (C) thru (F) o</b> (A) Normal fining position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a ha	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi	hing Test for 15 st -box type device locking mechani mechanism facili th the barrel vertion	ec. (Pass). s. sm facing directly ng directly down. cal.	Results (Pass/Fail) Pass Pass N/A
Manipulation con	ducted by hand at locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horized (C) If the firearm is a han (D) On the m	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel	hing Test for 15 se -box type device locking mechani mechanism facili th the barrel vertice vertical.	ec. (Pass). s. sm facing directly ng directly down. cal.	Results (Pass/Fail) Pass Pass N/A Pass
Manipulation con	ducted by hand at locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal fifting position with the barrel (B) Upside down with the barrel horized (C) If the firearm is a han (D) On the m (E) On either	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel h	box type device box type device locking mechani mechanism facili th the barrel vertice vertical.	ec. (Pass). es. sm facing directly ng directly down. cal.	Results (Pass/Fail) Pass Pass N/A Pass Pass
Manipulation con	Auteon locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal fining position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a hai (D) On the n (E) On either (F) Exposed hammer or striker	er subsequent to San Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	box type device box type device locking mechani mechanism facin th the barrel vertic vertical. norizontal. armost point of the	ec. (Pass). ss. sm facing directly ng directly down. cal. e weapon.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
Manipulation con	Auteen locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal fining position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a hai (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to San Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	borizontal. armost point of the	ec. (Pass). ss. sm facing directly ng directly down. cal. e weapon.	Resi (Pass Pas Pas N/ Pas Pas Pas
Sample No.	Auteen locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal fifting position with the barrel (B) Upside down with the barrel horize (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to Saw Drop Test do not apply to lock el horizontal/With the up. nontal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	hing Test for 15 se -box type device locking mechanism facili th the barrel vertion vertical. torizontal. armost point of the	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon.	Results (Pass/Fail Pass Pass N/A Pass Pass Pass Pass
Manipulation con Sample No. 3 Remarks/Notes:	Auteon locking bolt and trigger. ducted by hand at locking bolt and trigger <b>Sections (C) thru (F) of</b> (A) Normal fining position with the barrel (B) Upside down with the barrel horized (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to San Drop Test do not apply to lock el horizontal/With the up. notal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	box type device box type device locking mechani mechanism facin th the barrel vertion vertical. horizontal. armost point of the	ec. (Pass). ss. sm facing directly ng directly down. cal. e weapon.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
Manipulation con Sample No. 3 Remarks/Notes:	Auteon locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal fifting position with the barrel (A) Upside down with the barrel horized (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to Saw Drop Test do not apply to lock el horizontal/With the up. nontal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	hing Test for 15 se -box type device locking mechanism facility the barrel vertion vertical. horizontal. armost point of the	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
Manipulation con Sample No. Sample No. Remarks/Notes:	Auteon locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horized (C) If the firearm is a han (D) On the n (E) On either (F) Exposed hammer or striker	Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel h side with the barrel h , otherwise on the rea	bing Test for 15 se box type device locking mechani mechanism facility the barrel vertion vertical. horizontal. armost point of the	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
Sample total be Manipulation con Sample No. 3 Remarks/Notes:	Advected by hand at locking bolt and trigger. ducted by hand at locking bolt and trigger Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker, erformed in accordance with the puirements and the results properly	Drop Test do not apply to lock el horizontal/With the up. notal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the rea	bing Test for 15 se	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon. Phone	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 316-832-160
Sample total be Manipulation con Sample No. 3 Remarks/Notes: This test was per specification rec reflect the perfo	Average for the sector of the listed sample.	Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking ndgun, on the grip wi nuzzle with the barrel side with the barrel , otherwise on the read	bing Test for 15 second	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon. Phone 6720 Fax	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 316-832-160 316-832-160
Sample total be Manipulation con Sample No. 3 Remarks/Notes: This test was pe specification rec reflect the perfo	Sections (C) thru (F) of (A) Normal firing position with the barred (B) Upside down with the barred horized (C) If the firearm is a hal (D) On the m (E) On either (F) Exposed hammer or striker, erformed in accordance with the puirements and the results properly rmance of the listed sample.	Prop Test do not apply to lock el horizontal/With the up. notal/With the locking indgun, on the grip wi nuzzle with the barrel side with the barrel h , otherwise on the read Arnold/Mouser United States Tes 7447 W. 33rd St.	the barrel vertical. where the barrel vertical vertical. wertical. armost point of the barrel vertical. the barrel vertical. th	ec. (Pass). ss. sm facing directly ng directly down. cal. e weapon. Phone 6720 Fax	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 316-832-160
Sample totel be Manipulation con Sample No. 3 Remarks/Notes: This test was pe specification rec reflect the perfo	A sections (C) thru (F) of the fire of the	Prop Test do not apply to lock el horizontal/With the up. nontal/With the locking ndgun, on the grip wi nuzzle with the barrel h , otherwise on the read ide with the barrel h , otherwise on the read Arnold/Mouser United States Tess 7447 W. 33rd St.	bing Test for 15 se box type device locking mechani mechanism facilit th the barrel vertion vertical. horizontal. armost point of the st Laboratory N., Wichita, KS	ec. (Pass). s. sm facing directly ng directly down. cal. e weapon. Phone 6720 Fax	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass 316-832-160 316-832-160

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This test is design the firearms s 39.4 inches + 0.4 i shock test, subsec	(4) Shock Test and to test the firearms safety device and locking mechanism ability 2.2 pound weight from a distance of one 39.4 inches + 0 afety device body aligned to impinge and penetrate the locking key Additionally, using the shock impact fixture, drop a 2.2 p inches five times to the top of the firearms safety device body using upunt manipulation with an 8-10-inch long screwdriver with a 1/4 to discharge a primed case	/ to withstand shock L 4 inches five times to t way or combination loc yound weight from a dis g a chucked steel rod to 5/8-inch flathead end fe	lsing the shock imp the top of sk using a chucked tance of sol. Failure also oct or fifteen seconds a	act fixture, drop blade-type tool. curs if following t llows the tester t
Sample No.	Test Condition	Tool	Drops	Results
	X Firearm safety device tested with firearm.	blade	5	Pass
1	Firearm safety device tested without firearm.	rodi	5	Pass
	ducted with a 1/4 screwonver at keyway for 15 sec. subsec	juent to Snock Test	(Pass).	
This test is design	(5) Shackle or Cable Cut ned to determine the firearms safety device resistance to cutting fo hand forces of 100 pounds force for	ting Test rces of 1,000 pounds to r cables.	prce for solid metal	shackles or with
Sample No.	Test Condition	Max Load (Ibf	) Time (s.)	Results (Pass/Fail)
	Firearm safety device tested with firearm.	28 2 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	* <del>}</del>	(Fassirall)
N/A	Firearm safety device tested without firearm.		-	N/A
	(6) Plug Pulling To			
This <b>text</b> is design	(b) Thug Fulling action to di number 20 diameter drill bit and insert a self tapping screw deep. Apply a required tension of 225 pounds force axially be irearms safety device can be opened by fifteen seconds of manipu blade (not to exceen 5/8") that wil fit into the keyway a	SI slodge the plug from th of size AB12 at least 0. tween the case and ins lation with an 8-10-inch t the conclusion of the	e cylinder. Drill the 75 Inches talled screw. I long screwdriver w test.	keyway with a with the largest fl
Sample No.	Test Condition	Max. Loa	ad (lbf.)	Results (Pass/Fail)
	X Firearm safety device tested with firearm.			
2	Firearm safety device tested without firearm.		-	*
Remarks/Notes:				
I* Test could not be	e competed, due to hardened keyway.			

ET47708

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This test e designed to test the ability of a freams safety device, so that a torque pressures. Insert a screwchiver with the targest flat blade (not to exceed 58 her) that will it into the keyway, so that a torque load of 69 pounds force-inches can applied to the plug. Sample No. Test Condition Max. Load (tbs/in.) (Pass/Fail 2 K Firearm safety device tested without firearm. 2 Firearm safety device tested without firearm. 3 results and the completed, due to minimal keyway dimension. 3 results and the completed, due to minimal keyway dimension. 3 results and the completed, due to minimal keyway dimension. 3 results and the completed, due to minimal keyway dimension. 3 results and the completed, due to minimal keyway dimension. 3 results and the sawing test, the test main public the firearms safety device. 3 results and the sawing test, the test main public the firearms safety device. 3 results and the sawing test, the testing agent shall consist of 120 cycles, with no time limit, by according to the sawing test, the testing agent shall consist of 120 cycles, with no time limit, by according the sawing test, the testing agent shall consist of 120 cycles, with no time limit, by according the sawing test, the testing agent shall consist of 120 cycles, with no time limit, by according the sawing test, the testing agent shall consist of the 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 afree of the pounds. The test shall consist of 120 cycles, with no time limit, by according the sawing test, the testing agent shall amount the test with the sawing test, the testing agent shall amount the test with the testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constant vertical down afree of the pounds. The test shall consist of 120 cycles, with no time limit, by assoft at the conclusion of the sawing test, the testing agent shall amount at the testing agent sha			(7) [	Plua Torque Ter	st				
Sample No.         Test Condition         Max. Load (tbs/in.)         Results (pass/Fail           2         Firearm safety device tested with firearm.         .         .           Remarks/Notes:         *         *         .         .           * Test could not be completed, due to minimal keyway dimension.         .         .         .           * Test could not be completed, due to minimal keyway dimension.         .         .         .           * Test could not be completed, due to minimal keyway dimension.         .         .         .           * Test could not be completed, due to minimal keyway dimension.         .         .         .           * The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constatint vertical dowrage force of ten pounds. The test shall constatint 20 cycles, with no time time, by pand.         .         .           At the conclusion of the sawing test, the testing agent shall manipulate the firearms safely device for fitteen secolds by hand ig ar strength disable the firearms safely device.         Results (pass/Fail)           2         Firearm safety device tested with firearm.         128         Pass.           Sample No.         Test Condition         Cycles         Results (Pass/Fail)           2         Firearm safety device tested with firearm.         128         Pass. <t< th=""><th>This test screwdriver with</th><th>is designed to test the largest flat blade</th><th>he ability of a firearms safe e (not to exceed 5/8 inch)</th><th>ety device's keyway, if so that will fit into the keywa applied to the plug.</th><th>equipped, to v by, so that a to</th><th>withstand toro</th><th>jue pres 39 pound</th><th>sures. is forc</th><th>Insert a e-inches can t</th></t<>	This test screwdriver with	is designed to test the largest flat blade	he ability of a firearms safe e (not to exceed 5/8 inch)	ety device's keyway, if so that will fit into the keywa applied to the plug.	equipped, to v by, so that a to	withstand toro	jue pres 39 pound	sures. is forc	Insert a e-inches can t
X         Firearm safety device tested with firearm.         Passion           2         Firearm safety device tested without firearm.         -           Remarks/Notes:         *         *           * Test could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -         -           Image: Could not be completed, due to minimal keyway dimension.         -         -         -           Image: Could not be conclusion of the sawing a standard carbon steel hacksaw blade with 32 teeth per inch with a constant vertical dowtway         -         -           Sample No.         Test Condition	Sample No.		Test Condition		Max	. Load (Ibs/	in.)		Results (Pass/Fail)
2       Firearm safety device tested without firearm.       -       -         Remarks/Notes:         * Test could not be completed, due to minimal keyway dimension.         (B) 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 dowring force of ten pounds. The test shall consist of 120 cycles, with no time limit, by tead         At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device for fitteen secondle by hand is an external to disable the firearms safety device to fitteen secondle by hand is an external to disable the firearms safety device tested with firearm.       Results (Pass/Fall)         Sample No.       Test Condition       Cycles       Results (Pass/Fall)         2       Firearm safety device tested with firearm.       120       Pass         Pass         Remarks/Notes:         Sample tested between locking bolt and trigger         Manipulation conducted by hand at locking 'patt and' trigger subsequent tes Sawing Test for 15 sec. (Pass).       Results (Pass/Fall)         Sample tested between locking position with the barrel horizontal/With the locking mechanism facing directly down. (A) Normal firing position 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. (F) Do neither side with the barrel ver		X Fi	irearm safety device te	sted with firearm.					(Fass/i all)
Remarks/Notes:         * Test could not be completed, due to minimal keyway dimension.         (B) 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 dowtrog force of the pounds. The test shall constant of 120 cycles, with ro time limit, by gand.         At the conclusion of the sawing test, the testing agent shall mainpulate the firearms safety device of titled secolds by hard in gain steemple disable the firearms safety device to the sawing test, the testing agent shall mainpulate the firearms safety device.         Question in the sawing test, the testing agent shall mainpulate the firearms safety device of the sawing test, the testing agent shall mainpulate the firearms safety device.         Question in the test using a standard carbon steel hards we blade with 32 teeth per inch with a constant vertical dowtrog down of the sawing test, the testing agent shall mainpulate the firearms safety device tested with firearm.         2       Firearm safety device tested with firearm.       120       Pass         Pass         Remarks/Notes:         Sample tested between locking bolt and trigger subsequent te Sawing Test for 15 sec. (Pass).         Orop Test         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 down.	2	Fire	earm safety device test	ed without firearm.		-			+
Test could not be completed, due to minimal keyway dimension.     (B) 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 dowtway.     At the conclusion of the sawing test, the testing agent shall manpulate the firearms safety device of titleen seconds by hand user steemed to disable the firearms safety device.     Sample No.     Test Condition     Ciccles     Results     (Pass/Fail)     Z     Firearm safety device tested with firearm.     120     Pass     Remarks/Notes:     Sample tested between locking bolt and trigger.     Manipulation conducted by hand a topsing balt and trigger subsequent to Sawing Test for 15 sec. (Pass).     Setting lock     Setting (C) thru (F) do not apply to lock-box type devices.     (Pass/Fail)     Que,     (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 horizontal.     (C) On ether side with the barrel horizontal.     (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.     Pass     Remarks/Notes:	Remarks/Notes	<u>s:</u>							
(B) 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 dowtrog force of ten pounds. The test shall consist of 120 cycles, with no time limit, by band. At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device.         At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device.         Sample No.       Test Condition       Cycles       Results (Pass/Fail)         2       Firearm safety device tested with firearm.       120       Pass         Remarks/Notes:         Sample tested between locking bolt and trigger.         Manipulation conducted by hand at tocking toil and trigger subsequent to Sawing Test for 15 sec. (Pass/.         Drop Test         Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         3       (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly down.       N/A         3       (C) If the firearm is a handgun, on the grip with the barrel vertical.       Pass         4       (D) On the muzzle with the barrel horizontal.       Pass         5       (E) On either side with the barrel horizontal.       Pass         6       (D) on the muzzle with the barrel horizontal.	1 est could not	t be completed, du	ue to minimal keyway di	imension.					
(B) Sawing Test         The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constait vertical dowtware for of ten pounds. The test shall consist of 120 cycles, with no time limit, by shad. At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device.         At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device.         Sample No.       Test Condition       Cycles       Results (Pass/Fail)         2       Firearm safety device tested with firearm.       120       Pass         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. (Pass).         Drop Test         Semple No       Results (Pass/Fail)         Jorop Test         Sample No       Results (Pass/Fail)         Jorop Test         Settions (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         Jorop Test         Settions (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         3       (A) Normal firing position with the barrel horizontal									
Drop Test         Remarks/Notes:         Sample No.       Test Condition       Cycles       Results (Pass/Fail)         2       Firearm safety device tested with firearms.       120 cycles       Results (Pass/Fail)         2       Firearm safety device tested with firearm.       120       Pass         Remarks/Notes:         Sample tested between locking bolt and trigger.         Manipulation conducted by hand at tooking bolt and trigger subsequent testawing Test for 15 sec. (Pass).         Price of the firearm is a handgun, on the grip with the barrel horizontal/With the locking mechanism facing directly down.         2       Firearm safety device tested with firearm.       120       Pass         Remarks/Notes:         Sample tested between locking bolt and trigger         Manipulation conducted by hand at tooking bolt and trigger subsequent testawing Test for 15 sec. (Pass).         Image: Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         3       (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly down.       Pass         3       (B) Upside down with the barrel horizontal/With the barrel vertical.       Pass         3       (C) If the firearm is a handgun, on			(8)	) Sawing Test				este.	
force of ten pounds. The test shall consist of 120 cycles, with no time limit, by band.         At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device.         Sample No.       Test Condition       Cycles       Results (Pass/Fail         Z       Firearm safety device tested with firearm.       120       Pass         Remarks/Notes:       Sample tested between locking bolt and trigger.       Pass       Results         Sample tested between locking bolt and trigger.       Manipulation conducted by hand at locking bolt and trigger subsequent testsawing Test for 15 sec. (Pass).       Results         Simple No.       Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         Simple No.       Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         Manipulation conducted by not at locking position with the barrel horizontal/With the locking mechanism facing directly down.       Pass         3       (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.       Pass         4       (D) On the muzzle with the barrel vertical.       Pass         5       C) On either side with the barrel horizontal.       Pass	The testing ager	nt shall accomplish a	a test using a standard car	rbon steel hacksaw blade	e with 32 teeth	per inch with	a consta	ant ver	tical downward
disable the firearms safety device.         Sample No.       Test Condition       Cycles       Results (Pass/Fail)         2       Firearm safety device tested with firearm.       120       Pass         2       Firearm safety device tested with firearm.       120       Pass         Remarks/Notes:       Sample tested between locking bolt and trigger.       Manipulation conducted by hand at locking bolt and trigger subsequent to Sawing Test for 15 sec. (Pass).       Results (Pass/Fail)         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         3       (C) If the firearm is a handgun, on the grip with the barrel vertical.       N/A         (B) Upside down with the barrel horizontal/With the barrel vertical.       Pass         (E) On either side with the barrel vertical.       Pass         (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       Pass         Remarks/Notes:       Pass	At the conclusion	force c on of the sawing tes	of ten pounds. The test sh it, the testing agent shall n	all consist of 120 cycles nanipulate the firearms s	, with no time li afety device fo	mit, by hand , fifteen secol	o Notsbyh	and in	an attempt to
Sample No.       Test Condition       Cycles       (Pass/Fail         2       X       Firearm safety device tested with firearm.       120       Pass         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. (Pass).       Pass         Image: Sample No.       Image: Sample No.       Image: Sample No.       Results (Pass/Fail)         Sample No.       Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         Image: Sample No.       (A) Normal firing position with the barrel horizontal/With the locking mechanism facing directly up.       Pass         3       (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.       N/A         3       (C) If the firearm is a handgun, on the grip with the barrel vertical.       Pass         3       (D) On the muzzle with the barrel horizontal.       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:       Pass			disable	the firearms safety devi	xe≦ I5			<u>्रह्यू</u> )म - <u></u>	Results
X       Firearm safety device tested with firearm.       120       Pass         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. (Pass).       Pass         Drop Test       Sections (C) thru (F) do not apply to lock-box type devices.       Results (Pass/Fail)         Simple No       (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.       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:       Remarks/Notes       Pass	Sample No.		Test Condition		<u>.</u>	Cycles		ŝ,	(Pass/Fail)
2       Firearm safety device tested without firearm.       120       Pass         Remarks/Notes:         Sample tested between locking bolt and trigger.         Manipulation conducted by hand at locking bolt and trigger subsequent to Sawing Test for 15 sec. (Pass).         Drop Test         Sections (C) thru (F) do not apply to lock-box type devices.         Results         Sections (C) thru (F) do not apply to lock-box type devices.         Results         (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.         3       (C) If the firearm is a handgun, on the grip with the barrel vertical.       Pass         (B) Upside down with the barrel horizontal/With the barrel vertical.       Pass         (C) If the firearm is a handgun, on the grip 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         Pass       Pass		X Fi	irearm safety device tes	sted with firearm.			385		
Remarks/Notes:         Sample tested between locking bolt and trigger subsequent to Sawing Test for 15 sec. (Pass).         Drop Test         Results         Sample tested between locking bolt and trigger subsequent to Sawing Test for 15 sec. (Pass).         Drop Test         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.         (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.       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:	2	Fire	earm safety device teste	ed without firearm.		120			Pass
Sample tested between locking bolt and trigger.         Manipulation conducted by hand at locking bolt and trigger subsequent to Sawing Test for 15 sec. (Pass).         Drop Test         Semple 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.       Pass         (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.       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 horizontal.       Pass         (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       Pass         Remarks/Notes:       Pass	Remarks/Notes				-14) <sup>16</sup> 199	2-			
Imamplication conducted by hand at octang but and integral subsequent is saving restrict to respect to the sect (Pass).         Drop Test         Results (Pass/Fail)         Sertions (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.       Pass         (B) Upside 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.       N/A         (D) On the muzzle with the barrel horizontal.       Pass         (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       Pass         Remarks/Notes:	Completented	<u>5:</u>	۵۹۵۵ مېږي. ۲۰۰۰ - د ۱۹۹۹ مېږي ۱۹۹۰ - د ۱۹۹۹ مېږي						
Drop Test           Simple 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           (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:         Pass	Sample tested b	<u>s:</u> between locking be	olt and trigger.		ing Test for 1	Face (Dec	•)		
Drop Test           Simple 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:         Emarks/Notes	Sample tested b Manipulation co	s: between locking bo inducted by hand a	olt and trigger. at locking bolt and trigg	er subsequent to Sav	ing Test for 1	5 sec. (Pas	s).		
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           (B) Upside 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.         N/A           (D) On the muzzle with the barrel horizontal.         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:         Pass	Sample tested b Manipulation co	<u>s:</u> Detween locking bo nducted by hand a بوفینی	olt and trigger.	er subsequent to Sav	ing Test for 1	5 sec. (Pas	s).		
Sertions (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 horizontal.         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:         Remarks/Notes:         Pass	Sample tested b Manipulation co	5: between locking bo inducted by hand a	olt and trigger. at locking bolt and trigg	er subsequent to Sav	ing Test for 1	5 sec. (Pas	s).		
(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         (B) Upside 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.       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:       Pass	Sample tested b Manipulation co	5: between locking bo inducted by hand a	olt and trigger. at locking balt and trigg	er subsequent to Sav	ing Test for 1	5 sec. (Pas	s).		
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 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) Exposed hammer or striker, otherwise on the rearmost point of the weapon. Remarks/Notes:	Sample tested b Manipulation co	5: petween locking bo inducted by hand a	olt and trigger. at locking bolt and trigg	er subsequent to Sav Drop Test do not apply to lock	ing Test for 1	5 sec. (Pas	s).		Results (Pass/Foil)
(C) If the firearm is a handgun, on the grip with the barrel vertical. (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) Exposed hammer or striker, otherwise on the rearmost point of the weapon. Pass Remarks/Notes:	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a state of the state of the state of the state of the sta	olt and trigger. at locking balt and trigg sections (C) thru (F) ng position with the barr	er subsequent to Sav Drop Test do not apply to lock el horizontal/With the	box type devlocking mech	5 sec. (Pas	s).	tly	Results (Pass/Fail) Pass
(C) in the meaning of the single in the same relevant of the same releva	Sample tested b Manipulation co	5: between locking be inducted by hand a inducted by hand a (A) Normal firin (B) Unside dea	olt and trigger. at locking bolt and trigg Sections (C) thru (F) Ing position with the barr	er subsequent to Saw Drop Test do not apply to lock el horizontal/With the up. antalWith the locking	box type dev locking mech	5 sec. (Pas	s). Ing direc	tly	Results (Pass/Fail) Pass 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:	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a (A) Normal firin (B) Upside dor	olt and trigger. at locking bolt and trigg <b>Sections (C) thru (F)</b> tg position with the barr wn with the barrel horiz	er subsequent to Saw Drop Test do not apply to lock el horizontal/With the up. ontal/With the locking undaun on the grin with	box type dev locking mech mechanism i	5 sec. (Pas vices. hanism facin facing direct	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A
(F) Exposed hammer or striker, otherwise on the rearmost point of the weapon. Pass Remarks/Notes:	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a A (A) Normal firin (B) Upside dow (	olt and trigger. at locking bolt and trigg <b>Sections (C) thru (F)</b> Ig position with the barrel wn with the barrel horiz (C) If the firearm is a ha	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel	box type dev locking mech mechanism t h the barrel v	5 sec. (Pas vices. nanism facin facing direct rertical.	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass
Remarks/Notes:	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a (A) Normal firin (B) Upside dow (	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h	box type dev locking mech mechanism t h the barrel v vertical.	5 sec. (Pas vices. nanism facin facing direct rertical.	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass
renarsivoles.	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a (A)-Normal firin (B) Upside dow (E) Expe	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ig position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h	box type dev locking mech mechanism th the barrel v vertical. orizontal.	5 sec. (Pas vices. hanism facin facing direct retical.	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass
	Sample tested b Manipulation co	5: Detween locking bo inducted by hand a (A) Normal firin (B) Upside dow (F) Expo	olt and trigger. at locking bolt and trigg Sections (C) thru (F) Ig position with the barrel wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel side with the barrel h c, otherwise on the rea	box type dev locking mech mechanism t h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n.	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
	Sample tested b Manipulation co Sample No 3	5: between locking be inducted by hand a (A) Normal firin (B) Upside dow (F) Expo E	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ing position with the barrel with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel side with the barrel h c, otherwise on the rea	box type dev box type dev locking mech mechanism t h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n.	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
	Sample tested b Manipulation co Sample No 3 Remarks/Notes	<ul> <li>between locking be inducted by hand a</li> <li>(A) Normal firin</li> <li>(B) Upside dov (</li> <li>(F) Express</li> </ul>	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h otherwise on the rea	box type dev locking mech mechanism t h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct rertical. f the weapo	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass
	Sample tested b Manipulation co Sample No 3	5: Detween locking bo inducted by hand a (A) Normal firin (B) Upside dow (F) Expo 5:	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel side with the barrel h , otherwise on the rea	box type dev locking mech mechanism h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct rertical. f the weapo	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
	Sample tested to Manipulation co	5: between locking bo inducted by hand a (A) Normal firin (B) Upside dow (F) Expo E	olt and trigger. at locking balt and trigg Sections (C) thru (F) ing position with the barrel with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h c, otherwise on the rea	box type dev box type dev locking mech mechanism i h the barrel v vertical. prizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n.	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass
This test was performed in accordance with the Arnold/Mouser	Sample tested to Manipulation co	<ul> <li>between locking be inducted by hand a inducted by hand a</li> <li>(A) Normal firin</li> <li>(B) Upside dov (</li> <li>(F) Experiment</li> </ul>	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h otherwise on the rea	box type dev locking mech mechanism h h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct rertical. f the weapo	s). ng direc tly dowr	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass
This test was performed in accordance with the specification requirements and the results properly       Arnold/Mouser         United States Test Laboratory       Phone 316-832-160	Sample tested to Manipulation co Sample No 3 Remarks/Notes	<ul> <li>between locking be inducted by hand a</li> <li>(A) Normal firin</li> <li>(B) Upside dom</li> <li>(F) Expense</li> <li>(F) Expense</li> </ul>	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h otherwise on the read Arnold/Mouser United States Tes	box type dev locking mech mechanism t h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct rertical. f the weapo	s). ng direc tly dowr n. 2hone	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass
This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.       Arnold/Mouser         United States Test Laboratory       Phone       316-832-160         7447 W. 33rd St. N., Wichita, KS 6720 Fax       316-832-160	Sample tested to Manipulation co	5: between locking be inducted by hand a (A) Normal firin (B) Upside dow (F) Expense berformed in access equirements and ormance of the li	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ig position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker ordance with the the results properly isted sample.	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel side with the barrel h otherwise on the read Arnold/Mouser United States Tes 7447 W. 33rd St. I	box type den box type den locking mech mechanism i h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n. Phone =ax	tly n.	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 16-832-160
This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.       Arnold/Mouser         United States Test Laboratory       Phone       316-832-160         7447 W. 33rd St. N., Wichita, KS 6720 Fax       316-832-160	Sample tested to Manipulation co Sample No Sample No Remarks/Notes This test was p specification re reflect the perfe	5: between locking be inducted by hand a (A) Normal firm (B) Upside dor (F) Expo 5: berformed in acce equirements and ormance of the live	olt and trigger. at locking balt and trigg Sections (C) thru (F) ing position with the barrel with the barrel horiz (C) If the firearm is a har (D) On the r (E) On either osed hammer or striker ordance with the the results properly isted sample.	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h otherwise on the read Arnold/Mouser United States Tes 7447 W. 33rd St. 1	box type dev locking mech mechanism i h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n. Phone ax	tty n. 3 3	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 16-832-160
This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.       Arnold/Mouser         United States Test Laboratory       Phone       316-832-160         7447 W. 33rd St. N., Wichita, KS 6720 Fax       316-832-160	Sample tested to Manipulation co Sample No. 3 Remarks/Notes This test was p specification re reflect the performance		olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker ordance with the the results properly isted sample.	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel h side with the barrel h to otherwise on the read Arnold/Mouser United States Tes 7447 W. 33rd St. 1	box type dev locking mech mechanism h h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct rertical. f the weapo F KS 6720 F	s). ng direc tly dowr n. Phone =ax	tly n. 3 3	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 16-832-160 16-832-160
This test was performed in accordance with the specification requirements and the results properly reflect the performance of the listed sample.       Arnold/Mouser         United States Test Laboratory       Phone       316-832-160         7447 W. 33rd St. N., Wichita, KS 6720 Fax       316-832-160	Sample tested to Manipulation co Sample No 3 Remarks/Notes This test was p specification re reflect the perfe	E E E E E E E E E E E E E E E E E E E	olt and trigger. at locking bolt and trigg Sections (C) thru (F) ag position with the barr wn with the barrel horiz (C) If the firearm is a ha (D) On the r (E) On either osed hammer or striker ordance with the the results properly isted sample.	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel side with the barrel h otherwise on the read Arnold/Mouser United States Tes 7447 W. 33rd St. 1	box type dev locking mech mechanism h the barrel v vertical. orizontal. rmost point o	5 sec. (Pas vices. hanism facin facing direct ertical. f the weapo	s). ng direc tly dowr n. Phone =ax	tly n. 3 3	Results (Pass/Fail) Pass Pass N/A Pass Pass Pass Pass 16-832-160

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Record No.: FSD430

39.4 inches shock test,	ırms safety devi + 0.4 inches five subsequent mar	ce body aligned to impinge and penetrate the locking ke Additionally, using the shock impact fixture, drop a 2.2 e times to the top of the firearms safety device body usin hipulation with an 8-10-inch long screwdriver with a 1/4 to discharge a primed cas	eyway or combination pound weight from a ng a chucked steel ro o 5/8-inch flathead e e.	n lock using a a distance of od tool. Failure nd for fifteen s	chucked bl e also occu econds all	lade-type tool. urs if following th ows the tester to
Sample	NO.	Test Condition	Tool		Drops	Results
<u></u>	X	Firearm safety device tested with firearm.	blade		5	Pass
1		Firearm safety device tested without firearm	. rod	Í	5	Pass
Remarks/N	otes:	· · · · · · · · · · · · · · · · · · ·			i	
Manipulatio	n conducted w	vith a 1/4" screwdriver at keyway for 15 sec. subs	equent to Shock T	est (Pass).		8
<b></b>				96.2 <sup>58</sup> 43). 967	÷.	
This test is	designed to de	(5) Shackle or Cable Cu termine the firearms safety device resistance to cutting	tting Test	ds force for so	lid metal s	hackles or with
		hand forces of 100 pounds force	för cables.			Poculto
Sample	<b>1</b> 0.	Test Condition	Max. Load	(lbf.)	me (s.)	(Pass/Fail)
		Firearm safety device tested with firearm				
N/A		Firearm safety device tested without firearm	-		-	N/A
Failur occurs	rdesigned to tes nu deep if the firearms s	(6) Plug Pulling T st a cylinder lock's ability to withstand a pulling action to umber 20 diameter drill bit and insert a self tapping scre b. Apply a required tension of 225 pounds force axially to safety device can be opened by fifteen seconds of manifolde blade (not to exceen 5/8") that will fit into the keyway	est dislodge the plug fm w of size AB12 at lea between the case and pulation with an 8-10 v at the conclusion of	om the cylinder ist 0.75 inches d installed scre- inch long scre- the test.	r. Drill the ew. ewdriver wit	keyway with a the largest fla
Sample I	lo.	Test Condition	Max.	Load (lbf.)		Results
	X	Firearm safety device tested with firearm.				<u>11 033/1 011/</u>
		<ul> <li>Firearm safety device tested without firearm.</li> </ul>		-		*
3	otes:		•		<b>^</b>	
3 Remarks/N		ted, due to hardened keyway				
3 <u>Remarks/N</u> * Test could	not be compe					

¥ \*

4

(1) Plug Torque Test           stream line largest is designed to test the ability of a freams safety device's keyway, if so equipped, to withstand torque pressures. Insert a applied to the plug.           Sample No.         Test Condition         Max. Load (lbs/in.)         Results           3         Firearm safety device tested with firearm.         -				Record No.:	FSD430	-
appled to the plug.       Results         Sample No.       Test Condition       Max. Load (lbs/in.)       Results         3       Firearm safety device tested with firearm.       -       -         3       Firearm safety device tested with firearm.       -       -         Remarks/Notes:       -       -       -       -         * Test could not be completed, due to minimal keyway dimension.       -       -       -       -         The testing agent shall accomplish a test using a standard carbon sized hacksaw blade with 32 teeth per inch with a constart vertical downer force of the pounds. The test shall consist of 120 cycles, with no time limit, by End.       At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device to the fifter seconds by had le an attempting disable the firearm safety device tested with firearm.       Cycles       Results         Sample No.       Test Condition       Cycles       Results       Pass/Fail         3       Firearm safety device tested with firearm.       120       Fail       Fail         Remarks/Notes:       Sample tested between locking bolt and trigger.       Results       Results       Results         Sample No.       Sections (C) thru (F) do not apply to lock-box type devices.       (Fass/Fail       N/A         (B) Upside down with the barrel horizontal/With the locking mechanism faci	This test is screwdriver with th	(7) F designed to test the ability of a firearms safe le largest flat blade (not to exceed 5/8 inch) t	Plug Torque Tes aty device's keyway, if so that will fit into the keyway	equipped, to withs y, so that a torque	tand torque pressure load of 89 pounds fo	s. Insert a rce-inches can l
X       Firearm safety device tested with firearm.       PassFai         3       Firearm safety device tested without firearm.       -         Remarks/Notes:         * Test could not be completed, due to minimal keyway dimension.         (B) Sawing Test         The testing agent shall accomplish a test using a standard carbon steel hacksaw blade with 32 teeth per inch with a constant verifical downer force of ten pounds. The test shall consist of 120 cycles, with no time timit, by fand.         At the conclusion of the sawing test, the testing agent shall manipulate the firearms safety device to fifteen seconds by haid terim attemption disable the firearms safety device to fifteen seconds by haid terim attemption disable the firearms safety device to Cycles       Results (Pass/Fail         Sample No.       Test Condition       Cycles       Results (Pass/Fail         3       Firearm safety device tested witthout firearm.       120       Fail         Sample tested between locking bolt and trigger.         3       Firearm safety device tested witthout the barrel to rizontal/With the locking mechanism tacing directly dwi.         Q         Orop Test         Sample tested between locking bolt and trigger.         (Pass/Fail         Q         Orop Test       Results <td< th=""><th>Sample No.</th><th>Test Condition</th><th>applied to the plug.</th><th>Max Lo</th><th>ad (lbs/in )</th><th>Results</th></td<>	Sample No.	Test Condition	applied to the plug.	Max Lo	ad (lbs/in )	Results
3       Firearm safety device tested without firearm.       -         Remarks/Notes:         * Test could not be completed, due to minimal keyway dimension.         (B) Sawing Test         The testing agent shall accomplish a test using a standard cahon steel hacksaw blade with 32 teeth per inch with a constant verifield dom/mer         At the conclusion of the sawing test, the testing agent shall consist of 120 cycles, with no time limit, by fand;         Sample No.         Test Condition         Cycles         Results         (Pass/Fail         3         Tirearm safety device tested with firearm.         3         The testing agent shall accomplish a test using a standard cahon steel hacksaw blade with a 2 teeth per inch with a constant verifield dow/gen         Sample No.         Test Condition         Cycles         Results         (Pass/Fail         Sample tested between locking bolt and trigger.         Manipulation conducted by hand at testing bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).         Orop Test         Sample tested between locking bolt and trigger subsequent to Sawing T		X Firearm safety device tes	sted with firearm			(Pass/Fail)
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 verifical dom/we force of ten pounds. The test shall consist of 120 cycles, with no time limit, by Band.         At the condusion of the sawing test, the testing agent shall manipulate the firearms safety device tor fifteen seconds by haha is an attemption disable the firearms safety device tor fifteen seconds by haha is an attemption.         Sample No.         Test Condition         Cycles         Results         A rearm safety device tested with firearm.         3         Test Condition         Cycles         Results         Cycles         Results         Test condition         Cycles         Price rm safety device tested with firearm.         120         Results         Orop Test         Sample tested between locking bolt and trigger         Manipulation conducted by hand at leasting bolt and trigger subsequeet at bawing Test for 15 sec. (Fail).	3	Firearm safety device test	ed without firearm			•
* 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 verifical downwere force of ten pounds. The test shall consist of 120 cycles, with no time limit, by pland, i.e. and the force of ten pounds. The test shall consist of 120 cycles, with no time limit, by pland, i.e. and the force of ten pounds. The test shall consist of 120 cycles, with no time limit, by pland, i.e. and the force of ten pounds. The test shall consist of 120 cycles, with no time limit, by pland, i.e. and the force of ten pounds. The test shall consist of 120 cycles, with no time limit, by pland, i.e. and the force of tent of the sawing test, the testing agent shall manipulate the firearms safety device. Sample No.     Test Condition     Cycles     Results     (Pass/Fai     Sample tested between locking bolt and trigger     Manipulation conducted by hand at leaving bolt and trigger     Manipulation conducted by hand at leaving bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).     Drop Test     Sample No.     (A) Normal firing position with the barrel horizontal/With the locking mechanism tacing directly uv.     (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.     (P) On the muzzle with the barrel horizontal.     (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.     N/A     (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.     N/A	Remarks/Notes:			L		I
(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 verifical downwer force of ten pounds. The test shall consist of 120 cycles, with no time limit, by hand, as an attempted disable the firearms safety device to further in seconds by hand as an attempted disable the firearms safety device to further insconds by hand as an attempted disable the firearms safety device to further insconds by hand as an attempted disable the firearms safety device.         Sample No.       Test Condition       Cycles       Results (Pass/Fai         3       Firearm safety device tested with firearm.       120'       Fail         Remarks/Notes:         Sample tested between locking bolt and trigger.         Manipulation conducted by hand at leasing bolt and trigger subsequent to Stawing Test for 15 sec. (Fail).         Drop Test         Sample No.         Sections (C) thru (F) do not apply to lock-box type devices.         (Pass/Fail         Manipulation conducted by hand at leasing bolt and trigger subsequent to Stawing Test for 15 sec. (Fail).         Upon Test         Sections (C) thru (F) do not apply to lock-box type devices.         (Pass/Fail         N/A         (B) Upside down with the barrel horizontal/With the locking mechani	* Test could not b	be completed, due to minimal keyway di	imension.			
Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2"	l	(8	A Sawing Tost	×		4.
Disable the threams sately device.         Results           Sample No.         Test Condition         Cycles         Results           3         Firearm safety device tested with tirearm.         120         Fail           Remarks/Notes:           Sample tested between locking bolt and trigger.           Manipulation conducted by hand at looking bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).           Drop Test         Results           Sample No.         Sections (C) thru (F) do not apply to lock-box type devices.         Results (Pass/Fail up.           (A) Normal firing position with the barrel horizontal/With the locking mechanism tacing directly up.         N/A           (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.         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 horizontal.         N/A           (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.         N/A           N/A         Generative, otherwise on the rearmost point of the weapon.         N/A	The testing agent At the conclusior	shall accomplish a test using a standard car force of ten pounds. The test sh n of the sawing test, the testing agent shall	bon steel hacksaw blade all consist of 120 cycles, hanipulate the firearms sa	with 32 teeth per i with no time limit, afety device for fifte	nch with a constant v by hand en seconds by hand	ertical downway
X       Firearm safety device tested with firearm.       Oyadi S       (Pass/Fail         3       Firearm safety device tested with firearm.       120       Fail         Remarks/Notes:       Sample tested between locking bolt and trigger.       Drop Test       Results         Manipulation conducted by hand at leasing bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).       Results       (Pass/Fail         Manipulation conducted by hand at leasing bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).       Results       (Pass/Fail         0       Sections (C) thru (F) do not apply to lock-box type devices.       Results       (Pass/Fail         0       Sections (C) thru (F) do not apply to lock-box type devices.       N/A         0       (A) Normal firing position with the barrel horizontal/With the locking mechanism tacing directly down.       N/A         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         N/A       (E) On either side with the barrel horizontal.       N/A         N/A       (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       N/A         N/A       (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       N/A <td>Sample No</td> <td> disable</td> <td>the firearms safety devic</td> <td></td> <td></td> <td>Results</td>	Sample No	disable	the firearms safety devic			Results
A       Firearm safety device tested with our firearm.       120       Fail         Remarks/Notes:       Sample tested between locking bolt and trigger.       Manipulation conducted by hand at locking bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).       Fail         Manipulation conducted by hand at locking bolt and trigger.       Drop Test       Results         Simple 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 down.       N/A         (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.       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 horizontal.       N/A         (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       N/A         N/A       (F) Exposed hammer or striker, otherwise on the rearmost point of the weapon.       N/A	Completies.	Y Eiroarm safahi davias tas	tod with firoarth			(Pass/Fail)
Constrainest control to the product of the product	3	Firearm safety device test	ed without firearm		120	Fail
Sample tested between locking bolt and trigger. Manipulation conducted by hand at locking bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).           Drop Test         Sample No.       Results         (A) Normal firing position with the barrel horizontal/With the locking mechanism tacing 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 horizontal.       N/A         (F) Exposed harmer or striker, otherwise on the rearmost point of the weapon.       N/A         Remarks/Notes:       Drop Test.	Remarks/Notes			- <u>Seran</u> 21 - Seran	120	1 2.11
Sample tested between locking bolt and trigger.         Manipulation conducted by hand at leaking bolt and trigger subsequent to Sawing Test for 15 sec. (Fail).         Drop Test         Results         Query Test         Sample No.       Results (Pass/Fail)         (A) Normal firing position with the barrel horizontal/With the locking mechanism tacing 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 horizontal.       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:       Drop Test.	Comple to stad be		and a start of the	N.		
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 tacing 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 horizontal.       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:       Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at leeking bolt and trigg	er subsequent to Sawi	ing Test for 15 se	ec. (Fail).	
(A) Normal firing position with the barrel horizontal/With the locking mechanism tacing directly up.       N/A         (B) Upside down with the barrel horizontal/With the locking mechanism facing directly down.       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 horizontal.       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         N/A       N/A         (F) Test not conducted, due to failure during Sawing Test.       N/A	Manipulation con	ducted by hand at loeking bolt and trigg	er subsequent to Sawi	ing Test for 15 se	ec. (Fail).	
up.       N/A         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 horizontal.       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:       Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at leaving bolt and trigg	er sutsequent to Saw	ing Test for 15 se	ec. (Fail).	Results
(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:       Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at loeking bolt and trigg Sections (C) thru (F) (	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the	ing Test for 15 se	ec. (Fail). s.	Results (Pass/Fail)
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:       Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at loeking bolt and trigg Sections (C) thru (F) of (A) Normal firing position with the barr	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up.	box type device	ec. (Fail). <b>s.</b> sm tacing directly	Results (Pass/Fail) 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: Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at loeking bolt and trigg Sections (C) thru (F) ( (A) Normal firing position with the barre (B) Upside down with the barrel horizo	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking	ing Test for 15 se box type device locking mechanis mechanism facir	ec. (Fail). s. sm tacing directly ng directly down.	Results (Pass/Fail) N/A 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: Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at locking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barr (B) Upside down with the barrel horizu (C) If the firearm is a ha	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking ndgun, on the grip with	ing Test for 15 se box type device locking mechanis mechanism facin h the barrel vertice	ec. (Fail). s. sm tacing directly ng directly down. cal.	Results (Pass/Fail) N/A N/A N/A
(F) Exposed nammer or striker, otherwise on the rearmost point of the weapon.       N/A         Remarks/Notes:       N/A         Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at loeking bolt and trigg Sections (C) thru (F) ( (A) Normal firing position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a han (D) On the m	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel	box type device locking mechanism mechanism facin h the barrel vertice vertical.	ec. (Fail). s. sm tacing directly ng directly down. cal.	Results (Pass/Fail) N/A N/A N/A N/A
<u>Remarks/Notes:</u> Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at locking bolt and trigg Sections (C) thru (F) of (A) Normal firing position with the barre (B) Upside down with the barrel horiza (C) If the firearm is a ha (D) On the n (E) On either	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel ho	box type device locking mechanis mechanism facir h the barrel vertic vertical.	ec. (Fail). s. sm tacing directly ng directly down. cal.	Results (Pass/Fail) N/A N/A N/A N/A N/A
Drop Test not conducted, due to failure during Sawing Test.	Manipulation con	ducted by hand at loeking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barr (B) Upside down with the barrel horize (C) If the firearm is a ha (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with muzzle with the barrel ho ; otherwise on the read	box type device locking mechanis mechanism facin h the barrel vertice vertical. prizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A
	Manipulation con Sample No. N/A Remarks/Notes:	ducted by hand at loeking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horizo (C) If the firearm is a ha (D) On the m (E) On either (F) Exposed hammer or striker	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel ho ; otherwise on the real	box type device locking mechanis mechanism facin h the barrel vertic vertical. prizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A
	Manipulation con Semple No. N/A Remarks/Notes: Drop Test not cor	ducted by hand at loeking bolt and trigg Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horize (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker hducted, due to failure during Sawing Te	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel ho is side with the barrel ho c, otherwise on the real est.	box type device box type device locking mechanis mechanism facin h the barrel vertio vertical. prizontal. rmost point of the	ec. (Fail). <b>s.</b> sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail N/A N/A N/A N/A N/A N/A
	Manipulation con Sample No. N/A Remarks/Notes: Drop Test not cor	ducted by hand at looking bolt and trigg Sections (C) thru (F) of (A) Normal firing position with the barre (B) Upside down with the barrel horize (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker hducted, due to failure during Sawing Te	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with muzzle with the barrel ho side with the barrel ho otherwise on the rear pest.	box type device locking mechanis mechanism facin h the barrel vertion vertical. prizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A
	Manipulation con Semple No. N/A <u>Remarks/Notes:</u> Drop Test not cor	ducted by hand at loeking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horize (C) If the firearm is a ha (D) On the m (E) On either (F) Exposed hammer or striker nducted, due to failure during Sawing Te	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with muzzle with the barrel ho side with the barrel ho otherwise on the real est.	box type device locking mechanis mechanism facin h the barrel vertion vertical. prizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A
This test was performed in accordance with the Arnold/Mouser	Manipulation con Sample No. N/A <u>Remarks/Notes:</u> Drop Test not cor	ducted by hand at loeking bolt and trigg Sections (C) thru (F) of (A) Normal firing position with the barrel (B) Upside down with the barrel horizon (C) If the firearm is a han (D) On the m (E) On either (F) Exposed hammer or striker inducted, due to failure during Sawing Te	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel ho side with the barrel ho o, otherwise on the real est.	box type device locking mechanis mechanism facir h the barrel vertic vertical. orizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A
This test was performed in accordance with the Arnold/Mouser specification requirements and the results properly United States Test Laboratory Phone 316-832-16	Manipulation con Sample No. N/A N/A Remarks/Notes: Drop Test not cor This test was pe specification rec	ducted by hand at loeking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barr (B) Upside down with the barrel horize (C) If the firearm is a ha (D) On the n (E) On either (F) Exposed hammer or striker nducted, due to failure during Sawing Te	er subsequent to Saw Drop Test do not apply to lock- el horizontal/With the up. ontal/With the locking indgun, on the grip with muzzle with the barrel ho ; otherwise on the read est. Arnold/Mouser United States Test	box type device box type device locking mechanis mechanism facin h the barrel vertice vertical. prizontal. rmost point of the	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon.	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A 316-832-160
This test was performed in accordance with the specification requirements and the results properly united States Test Laboratory       Arnold/Mouser         United States Test Laboratory       Phone 316-832-16         reflect the performance of the listed sample.       7447 W. 33rd St. N., Wichita, KS 6720 Fax 316-832-16	Manipulation con Sample No. N/A N/A Remarks/Notes: Drop Test not cor This test was pe specification rec reflect the perfor	ducted by hand at loeking belt and trigg Sections (C) thru (F) of (A) Normal firing position with the barrel (A) Normal firing position with the barrel (B) Upside down with the barrel horize (C) If the firearm is a ha (D) On the m (E) On either (F) Exposed hammer or striker inducted, due to failure during Sawing Te enformed in accordance with the puirements and the results properly rmance of the listed sample.	er subsequent to Saw Drop Test do not apply to lock- rel horizontal/With the up. ontal/With the locking indgun, on the grip with nuzzle with the barrel ho ; otherwise on the real est. Arnold/Mouser United States Test 7447 W. 33rd St. N	box type device box type device locking mechanis mechanism facin h the barrel vertice vertical. prizontal. rmost point of the Laboratory	ec. (Fail). s. sm tacing directly ng directly down. cal. e weapon. Phone 6720 Fax	Results (Pass/Fail) N/A N/A N/A N/A N/A N/A 316-832-160
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### ET47715

#### 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

#### 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 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.

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- (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/importer" means either: A licensed manufacturer of domestically produced firearms or, if one exists, a legal successor-in-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.

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- (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) "Poster of Access" define the Device " a construction of Access difficult and/or 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

## .30 Who Must be a Certified FSD Laboratory

Any laboratory wishing to participate in the testing program described in these regulations must first become a Certified FSD Laboratory.

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 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 cortification 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.

- ) 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.

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- (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 frearms 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.

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- (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

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- (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:

- Minimum time: 15 days. (1)
- (2) Median time: 20 days.
- (3) Maximum time: 30 days.

(c) The following processing times will apply to application renewal:

30 days.

- (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.

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- (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.
- The DOJ's minimum, median, and maximum times for processing a completed application for (d) renewal of certification from the date of receipt to a final decision are:
  - (1) Minimum time 5 days

Median time:

Maximum time:

20 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

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- (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.

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- (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 manufacture timporter, 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 firearms safety device testing, or the owner(s), shareholders(s), partner(s), officer(s), and/or director(s) of the Certified FSD Laboratory will:
  - Have any contractial, 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 DOJ 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 tength, 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.

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.

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(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, 12088.2, Penal Code. Reference: Sections 12088, 12088.2, Penal Code.

### 7.43 - 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:

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- (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 or 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 to 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.

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

#### § 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 cartridg
  - (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:

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- (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.

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- (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's, 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.
  (8) The firearms safety device shall not be of a design to allow it to be disabled or removed from
- (8) 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) Norwithstanding 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:
  - 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 proper combination lock, failure 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 flousehold tools. Partial destruction attacks shall be limited to the firearm's trigger 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 indicates that the firearms safety device firearm and firearms safety device indicates that the firearms safety device indicates that the firearm safety device indicates that the firearm as described in this subsection. Failure also occurs if the firearm could be fired, even if unsafe to do so, as it 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 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

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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 to10-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 1/2)-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 centerine is 0.75 inches (+/- 0.05 inches) from the center of the pliers' pivot pin. The firearms safety device is to 33 be 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.
- (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 that 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 screw was inserted. The test does not need to be applied to keyways which cannot accept the self-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 device.

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(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.

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- (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. 2.83
- (d) 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 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):
  - (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 slab 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 harmer 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

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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):

- (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 (3 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.
- (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 C

#### § 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 97745 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 97747 of these regulations, and shall be signed by the person authorized to sign on tunal of the laboratory.

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.

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.

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- (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:
  - 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:

(f) 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 taw(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 first 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.

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

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#### § 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) A receipt for purchase of the gun safe or an affidavit stating ownership and possession of the gun safe.
- 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 transferee. 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.

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

# $\S$ 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 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 or Revocation of FSD Laboratory Certification

7.60 - DOJ Suspension or Revocation of FSD Laboratory Certification

The DOJ may suspend or revoke a laboratory's FSD Laboratory Certification for any of the following:

(1) Any act of gross negligence.

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- (2) 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.

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

### 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

#### 77.80 - Service of Notices, Orders, and Communications

- 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.

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

#### 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 inanufacturer 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.

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

#### § 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.

- (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.

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

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BILL LOCKYER Attorney General			State of California					
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LOCATION:	P.O. Box 160	0487, Sacramento, CA 95816-0487						
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BILL LOCKYER Attorney General State of California DEPARTMENT OF JUSTICE



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. Pursuant 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 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 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 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.

Analyst

Firearms Information Services Section

For BILL LOCKYER Attorney General

Enclosure











	FACSIMILE TRA	ANSMITT	TAL SHEET
То:	K.J. KERR	Date:	JAN-20-04
Company:	<u>CA DOT</u>	From:	MARLIN JIRANER
Fax No.:	(916) 274 - 5992	Fax No.:	(270) 737-9576
Phone No.:	(916) 263-4885	Phone No.:	
Number of	pages including Cover Sheet:	6	<i>e</i>
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		Depar Firearms S	tment of Justice ( afety Device Listi	DOJ) ng Request	Rev 8/01	
Ų	Réport ID: Lab Ref #:	239 FSD428	FSD Model: Lock Type: FSD Make: FSD Type:	870 Express Plastic Two Hex Key Remington Trigger Lock	-Dot ISS	
	Firearm Make: Caliber:	Remington 12 gauge	Firearm Model: Barrel Length: Primer:	870 Express 28.0" Fiocchi		
	Were the firear those that are of Yes No X If the firearms s firearm(s) that of proper manner range of calibe that is X-inches device and the the same as will regarding the fi firearm(s) the d Devices Certific company, sign necessary. <u>REMINGTON</u> 572 RIFE SEE M I declare under is executed tha Signature: Name/Title (Pfi Date: Phone number (optional): Loca	Firearms Mo ms safety devices currently in stock a (If "Yes," please e safety device can t was used for testin lirearms with chars . For example: yo rs; types (pistol, re is long and X-inches firearm on which t hat was tested the rearm(s) on which livision has approved for Sale. The cl addition of the same test of the same . Models 87 . ES AND SHA . Com PALY INC penalty of perjury t all statements ma . Marin SEN (OP (s) that you would bal	Department of Justice Safety Device Manufactur del Designation Certifica for the above referenced mond/or being sold? explain) De property installed and use of you may provide a listing acteristics that will allow your u may specify a make and monover, shofgun, rifle, etc.), o swide, etc. The division will be device will be installed, and device can be extended DO the firearms safety device we ded for use will be included o ertification must be complete of the division. Attach addition acteristics, ALL VARIP PAGE FOR PARACE according to the laws of the ade herein are true and complete of RESEARCH ENGINESS like posted on the Internet w Toll Free	rer/Dealer   tion   odel in any way modified   d on firearms other that   of those firearms or the   device to perform in a stodel of firearm; specific   r firearms with a trigger   review the installation or   J-certification. The info   rate tested and the addit   n the Roster of Firearms   of by a representative or   nal copies of this sheet   T600, 552, A   NTS   State in which this certification   n thy your product certification	ation	

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## FAX NO.

	Firearms Sa	afety Device Listi	ng Request
Report ID: Lab Ref #:	240 FSD429	FSD Model: Lock Type: FSD Make: FSD Type:	870 Express Aluminum Two-Dot I Hex Key Remington Trigger Lock
Firearm Make: Caliber:	: Remington 12 gauge	Firearm Model: Barrel Length: Primer:	870 Express 28.0" Fiocchi
	Firearms S Mod	Department of Justice afety Device Manufactu lel Designation Certifica	rer/Dealer ation
Were the firearthose that are Yes No x	arms safety devices f currently in stock ar (If "Yes," please ex safety device can be	for the above referenced m nd/or being sold? kplain) e properly installed and use	odel in any way modified from
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d.	FSD Make	FSD Model	Can the FSD be used on Pistols?	Can the FSD be used on Revolvers?	Can the FSD be used on Decring ers?	Can the FSD be used on Rifles?	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	NO	N D	NO	en and a second	YES	ANY	YEG 870, 1109, 11-87 7400, 7600 552, 572	O EM ONSLY
FAX NO.	Remington	870 Express Aluminum Two-Dot ISS Trigger Guard	NO	NO	NO	YES	¥{5	ANY	YES 870, 110°, 11-87 7400, 9600 552, 572	DEM 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. 

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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 (FSD428) 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 fircarm platforms that utilize the same common fire-control design.

Both of the firearms safety devices (FSD429 & FSD428) are <u>only</u> 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

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 11-81 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 firearms 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 looking cylindet/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.

Marlin R. Jiranek, II Senior Research Engineer

Sincerely

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