Remington Arms Company Theo.

Research & Development Technical Center
315 West Ring Road
ELIZABETHTOWN, KY 42701

M/710 Trial & Pilot

Test Plan

Model 710, New Centerfire Rifle

(Caliber - .30-06 Springfield)

Revision # 3 (Edited by S. Franz)

10/25/00

TLW0300

9:45 AM 05/24/06

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M/710 CENTERFIRE RIFLE TRIAL & PILOT TEST PLAN

Introduction:

This test is designed with the assumption that a production run of at least 300 rifles will be produced by the Mayfield plant using all available production processes intended for use in manufacturing this model. Thirty (30) rifles will be selected at random from the sample lot of 300 for use as Trial & Pilot evaluation samples.

The sample of 30 rifles will be divided into 3 groups of 10 rifles each; A1-A10, A11-A20 and A21 to A30. All rifles, A1-A30, will be used initially for Marketing's visual and packaging evaluation which will be done on site. Rifles A11-A20 will be used for measurements and A21-A30 will be used for initial accuracy using a high quality 36X scope to establish the baseline accuracy of the rifle without the included Bushnell scope, as well as bore-sight verification using the production Bushnell scope.

All 30 rifles will be shot, 10 rounds each, as a safety precaution with a lanyard prior to the continuation of any live fire testing if Mayfield does the initial headspace and proof testing. After completion of the 10 round lanyard test, each rifle will be shot using 100 rounds of Remington ammunition, (5 types of 20 rounds each type), using the Remington jack (heavy configuration) to establish the basic product malfunction rate.

Rifles A1-A10 will then be shot, in the jack, an additional 400 rounds each using a variety of Remington and major competitor's ammunition to evaluate malfunction rates, magazine box endurance and reliability and other wear and breakage characteristics.

Rifles A11-A20 will be used as samples for Environmental Testing and Abuse Testing.

Rifles A21 to A30 will be for a 200 round test of the Scope System for stability and reliability at 0, 100 and 200 round intervals.

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Initial Tests, Measurements and Inspections:

VISUAL EXAMINATION, PACKAGING AUDIT AND PACKAGING TEST - TLW0300A THROUGH TLW0300C:

TLW0300A - Visual Examination

A visual examination will be made of all 30 sample rifles prior to the start of any additional testing, measurement or inspection. A temporary hang-tag will be attached to the trigger bow of each rifle with the numbers V1-V30 ("V" for "visual") along with the serial number of each rifle. These temporary tags will be used to identify each sample rifle for the purpose of recording observations. After the visual examination permanent labels will be affixed to each test sample using the designations A1-A30.

Clearly defined visual standards are not established for this model at this time. Since no standards exist Marketing representatives will be present on site to conduct the visual examination. **Product and packaging as received from Mayfield will not be touched or opened prior to Marketing's arrival.** No further T & P activity can start until Marketing has completed the visual audits of both the product and packaging.

TLW0300B - Packaging Audit

Marketing will also conduct the packaging audit while they are on site. Packaging will be audited as the firearms are unpacked. Each shipping box will be examined for:

- -Match of Serial Number on Rifle to that on the box end label and owner's manual package.
- -Check the inventory of all required paperwork, owner's manuals, videotapes, etc.
- -Box examination for presence of tears in the cardboard, crushing, stains, box inserts, etc.

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Note that the final configuration of the shipping carton is not yet completely determined and may be changed prior to commencement of shipping to the customer. It is understood however that current packaging, even if is temporary, will potentially be used to ship product to customers and therefore should be evaluated with this in mind. All apparent discrepancies will be noted and documented with photographs if necessary.

TLW0300C - Packaging Test

Two rifles and packaging materials will be selected for inclusion in a test of the packaging to include both the rifle and scope as a system. Also included in the test will be the appropriate customer included materials such as owner's manual, warranty materials, etc.

Test procedure is still to be defined but will closely follow standard package drop testing procedures used to certify packaging for shipping.

HEADSPACE AND PROOF - TEW0300E THROUGH TLW0300G:

TLW0300E - Measure Headspace

All test samples will be measured for headspace before being tested in either the jack or shot from the shoulder. The chamber, bolt face & focking lugs will be inspected for the presence of dirt or debris. If dirt or debris that could affect headspace measurement is present then these areas of the firearm will be cleaned before using the gauges.

Method:

The graduated headspace gauges based on Remington chamber dimensions (Ref.: Remington Gauge Drawing # 41560 ... A, ... B. ... C. & ... D) will be used and the headspace measurements will be recorded to the nearest .001" increment as indicated by the gauge. The .30-06 Remington chamber drawing LB-153 will be used for chamber dimensions.

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The headspace measurements will be recorded to the nearest '001' increment as indicated by the gauge.

If the measurement is taken at the start of the test then headspace should be less than Min. + .005".

As the test progresses, headspace will be taken at each "Safety Inspection" scheduled in the plan and, in addition, at each "Clean & Inspect" activity scheduled by the plan.

The readings for each firearm will be recorded on the "Daily Test Data Sheet" to be kept with each firearm in the accompanying data packet.

For any firearms where the headspace is changing at each inspection point the firearm will be withdrawn from test and examined for the cause.

In no case will any firearm in the test program be allowed to continue test if the headspace exceeds Min. + .009".

Data Required:

Rifle serial number

Headspace measurements for each sample

TLW0300F - Proof Test

All firearms in the 300-rifle sample as supplied by Mayfield should be proof tested prior to delivery to R&D for T&P testing. Each rifle in the selected 30-rifle sample will be examined for the presence of the Remington proof stamp. If the rifles are not proof tested and properly stamped by Mayfield the following procedure will be used by R&D to proof test and stamp the rifles prior to any other live fire testing proceeds.

All test sample firearms will be subjected to a standard .30-06 Factory Proof Load, shot in the blow-up room using a lanyard. This procedure will be completed before the firearm can be used for any additional firing tests.

Before proof testing the firearm should be inspected for:

- Barrel Obstructions
- Bore and chamber are free of grease or oil and other debris.

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For fully assembled firearms, one definitive proof cartridge should be fired in each firearm. Definitive proof ammunition is to be used in accordance with the "Handling of Ammunition" procedure defined in the SAAMI Technical Committee Manual, Volume III, Section II. Page 2410 as follows.

- a. "Cartridges to be tested should be placed in a vertical position with primer end down in a recessed holding block."
- b. "... a cartridge should be lifted vertically from the block. It should be rotated slowly, end over end, in a vertical plane through 360° pausing momentarily when the powder is at the bullet end and again when the powder is at the primer end."
- c. "The cartridge is then rotated slowly, a minimum amount to enter chamber, keeping primer end in lowest possible position until inserted gently and carefully into the chamber."
- d. "The cartridge should be seated in the chamber as far as practicable with the fingers. The bolt or breech mechanism should be closed gently in order not to disturb the position of the powder in the cartridge case. The object of this method of handling cartridges is to position the propellant powder at the primer end of the cartridge case by permitting it to fall gently against the primer and while rotating the case."

Note that these procedures for proof testing were developed to consistently position the propellant thereby providing greater consistency of proof pressures. Failure to follow this procedure during the definitive proof testing of each chamber of the firearm could result in pressure levels significantly below the minimum proof pressure specification as determined for the cartridge.

Any firearms components, such as bolts, bolt heads, receivers including chambers, etc. which were previously subjected to proof testing and, which subsequently, have any proof sensitive components changed, altered, or substituted, should be re-proofed.

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Method:

- Record headspace before proof testing (see previous procedure: "1LW0300D Measure Headspace.")
- After firing the proof round, the firearm will be carefully examined to determine if any damage to the
 product has occurred due to exposure to the proof pressure. This inspection includes:
- Visual inspection for damage,
 - damaged receiver or bolt, especially the locking lugs on the bolt or the receiver
 - · bulged chamber or bore; split, cracked or otherwise damaged barrel,
 - broken stock,
 - any other part subjected to the proofing stress, which can be visually examined for damage.
 - Any "suspicious" areas should be submitted to magna-flux inspection before proceeding.
- The fired proof cartridge should be examined to determine that no firearm fault has introduced cartridge failure, such as:
 - Expanded cartridge head.
 - Excessive roughness, rings, or bulging, which would affect extraction.
 - Beginning separation or material stretching in front of the case head indicating excessive headspace or excessive pressure as stated above.
 - · Any cartridge case failure indicating a firearm fault.
- In addition, the spent proof round should be examined for the presence of unusual deformation, split case or split head, and for any evidence of a pierced primer. Any of these conditions may be indicative that highpressure gases may have vented into the action where other damage to components may have occurred.
- Take note of any indication of significant gas leakage, if present, it may indicate that the firearm was not
 subjected to full proof pressures and the proof test would then be invalid and would require re-proofing.
- A firearm is only properly proofed when the cartridge has been fired without evidence of significant gas leakage.
- Save the spent proof case in a Zip-Lock plastic bag and label and place in the data packet for further
 reference. If any parts were broken or otherwise damaged, place these parts in the same bag as the proof
 case and label. Place a label on the firearm and withdraw the firearm from the test.

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- Each sample firearms' headspace (see following procedure "TEW0300G" Re-Measure Headspace after Proof") must remain in range from min. to min. +.007" after proofing, with no individual firearm's headspace to grow more than .002" after firing one proof round. After successful proofing, the right lug on the bolt head will be marked in the center (i.e. center of top to bottom and center or front to rear) of the lug with a center punch to indicate that is has been proofed.
- After proof, if the firearm passes the inspection and headspace has been measured (see next section of test plan), stamp the firearm on the barrel with an authorized Remington proof stamp. Locate the proof mark on the right rear of the barrel in the specified location for the Remington proof stamp. DO NOT STAMP if the headspace exceeds Min + .009".
- Because of the higher pressures involved in shooting proof cartridges, adequate precautions, both
 mechanical and procedural, should be taken to protect personnel performing the firearms proof testing. To
 this end, the firearm should be securely mounted, completely shielded from the operator and firing
 accomplished by a remote control method.

Data Required:

- · Rifle serial number
- Record and note any headspace growth and the corresponding round level.
- · Record significant gas leakage and/or firearm damage
- Record any case damage or other ammunition related malfunctions.
- Record any damage to the frearm resulting from the proof test. Document with Photographs as necessary.

TLW0300G - Re-Measure Headspace after Proof

All test samples will be re-measured for headspace after proof and before being tested in either the jack or shot from the shoulder. The chamber, bolt face & locking block/locking notch will be inspected for the presence of dirt or debris. If dirt or debris that could affect headspace measurement is present then these areas of the firearm will be thoroughly cleaned before using the gauges.

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Method:

- The graduated headspace gauges based on Remington chamber dimensions (Ref.: Remington Gauge Drawing # 41560 ... A (min.), ...B (+. 005), ...C (+. 007), & ...D (+. 009)) will again be used and the headspace measurements will be recorded to the nearest .001" increment as indicated by the gauge. The .30-06 Remington chamber drawing LB-153 will be used for chamber.
- The headspace measurement taken prior to the proof test should be less than min. + .005". If, after proof, the growth of the headspace is more than + .002" from the pre-proof condition, then stop and review the results with the test manager before continuing to the next phase of the test.
- In no case should the measurement for headspace after initial proof test be greater than min.+007" for a new firearm.
- If at any time during the test program the headspace exceeds a maximum of Min. + .009" do not continue to
 fire the rifle, tag the gun with a label reading "Do Not Shoot This Firearm Exceeds Maximum Allowable
 Headspace" and return the firearm to the Test Manager for disposition.

Data Required:

- · Rifle serial number
- Record and note any headspace growth and round level.

FORCES - TLW0300H THROUGH TEW0300Q AND TLW0300T:

TLW0300H - Measure Firing Pin Indent:

The firing pin indent will be measured for each of the sample rifles using SAAMI qualified copper crushers. The average of three trials per sample rifle will be calculated. The Average of three indents must be equal to or greater than 0.017".

Method:

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- Using copper crushers, "burnish" both ends of the crusher slug by gently rubbing both ends on the granite
 base of the dial indicator stand (use outside edge of the plate.)
- Place the copper crusher in a .30-06 / .270-crusher holder, place the crusher holder on the base of the dial indicator and zero the dial indicator with the point of the indicator in the approximate center of the crusher.
- Carefully, with the gun held so that the muzzle is pointed down toward the floor, gently insert the crusher
 holder into the chamber, being sure that the extractor clearance cut on the crusher is properly oriented
 relative to the extractor position.
- While maintaining a firm hold on the bolt handle, gently, and slowly ease the bolt forward to the full
 forward position and then rotate down being sure that the action locks fully.
- Holding the firearm in a horizontal and level position, and pointing the firearm in a safe direction, pull the trigger until the firing pin releases.
- Carefully open the action and remove the crusher holder, being careful not to drop the copper crusher.
- Leave the crusher in the holder and place under the dial indicator.
- Move the crusher holder so that the point of the dial indicator finds the deepest portion of the firing pin indent.
- Record the dial indicator reading to the nearest .001".
- Repeat procedure two more times and record the dial indicator readings using a new copper crusher for each trial.
- Each firearm sample should have three readings that will be averaged.
- Record all three readings for the data file.

Data Required:

- Rifle serial number
- Each of the three trial indents
- The calculated average indent by rifle.

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TLW03001 - Measure Sear/Trigger Engagement and Sear Lift:

The Sear/Trigger Engagement will be measured. The amount of engagement must be measured between .020" and .025" measured with the bolt in the fully closed and locked position.

Method for measuring Sear/Trigger Engagement:

- The 30" Optical comparator will be used to measure the engagement at 50X magnification.
- With the barreled action held firmly in position, the barreled action will be aligned such that the action is held perpendicular to the lens in both the horizontal and vertical planes.
- With action closed and locked, the safety in the fire position, measure the amount of overlap between the sear and the trigger.

Method for measuring Sear Lift:

- Remove the bolt from the action.
- Place the Safety in the "Off-Safe" (i.e. "Fire") position.
- With the action held firmly in a horizontal position pre-toad the sear in the downward position using a small screwdriver and with a dial indicator zeroed on the top of the sear, gently rotate the Safety to the "On-Safe" position.
- Record the amount of vertical movement of the sear
- Minimum sear lift is 0.006" and maximum sear lift is 0.018"

Data Required:

- · Rifle Serial number
- Record Sear/Trigger Engagement
- Record Sear Lift

TLW0300J - Measure Trigger Pull Forces:

Trigger pull force

Method:

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- Trigger pull is to be performed to the SAAMI standard, horizontal pull at the center of the finger radius of the trigger using the Test Lab apparatus designed for taking this measurement.
- Use the 1-10 lb. Chatillion Force digital force gauge.
- · Force is measured parallel to the bore with the stock assembled to the action
- Three pulls are to be taken on each sample rifle and the results averaged.
- The average force for the three trials must be between 4.0 lb. and 5.0 lb.

Data Required:

- Rifle Serial number
- All three data points for each trial rifle
- The average of the three measurements for each sample rifle

TLW0300K - Measure Safe On/Off Forces:

Using the Chatillion Digital force gauge and the wooden holding fixture used to take trigger pull readings, push the Safe from the "Safe On" to the "Safe Off" position on each test sample. Complete three trials. Record all three readings for each firearm. A minimum of 1 lb. force in "Safe On" to "Safe Off" direction will be assumed as the reference criteria.

Method:

- Use trigger pull apparatus to hold the rifle for this test.
- Use the Chatillion Digital Force gauge (0-10 lb. range) with the disc point or the "v" shaped point. Use the same tip on all subsequent trials
- · Make three trials in specified direction for each sample.
- Average the results of each of the three trials.

Data Required:

Rifle serial number

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- Each of the three readings on each sample
- The average of each of the three sets of readings

TLW0300L - Measure Bolt Lift and Bolt Closing Forces:

The force required opening the bolt and closing the bolt will be measured for each sample. Both of these forces will be taken with the chamber empty and then repeated, this time with a new dummy round in the chamber. Bolt opening forces will also be checked with the firing pin cocked and uncocked as well. There is not a specification for these forces and the readings will be taken for information only.

Method:

- After locating the rifle in the trigger pull fixture and securely locking in place, (it may be necessary to clamp
 the fixture to the bench if not already securely fixed in place), locate the hook of the force gauge at the point
 on the bolt handle just behind the ball.
- With the chamber empty and using the Chatillion gauge, pull the gauge straight up and perpendicular to the bore, measure the force required to open the bolt with the firing pin cocked.
- Lock the firearm in a horizontal position, using the trigger pull holding fixture, (i.e. shooting position)
 before taking the measurements.
- Take three readings for each gun in the sample.
- Record all readings.
- Repeat procedure, only this time open bolt with the firing pin in the fired or fully forward position.
- Repeat the procedure again only this time push the bolt closed.
- Note that it may be necessary to start the bolt closed by hand so the firing pin head is depressed sufficiently
 out of the noteh and can start up the cam surface of the bolt as the firing pin is cocked.
- Repeat all the above procedures only this time with a new, unused dummy round in the chamber.

Data Required:

• Rifle serial number

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- Each of the three readings taken for each of the 6 states for each test sample
 - 1. Bolt opening force with empty chamber, firing pin cocked.
 - 2. Bolt opening force with empty chamber, firing pin uncocked (fired)
 - 3. Bolt closing force with empty chamber.
 - 4. Bolt opening force with dummy round in chamber, firing pin cocked.
 - 5. Bolt opening force with dummy round in chamber, firing pin uncocked (fired)
 - 6. Bolt closing force with dummy round in chamber
- The average of each set of three measurements per state

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TLW0300M - Measure Magazine Spring Force:

The force produced by the compression of the Magazine Spring in the box with the follower attached will be measured. These measurements will be taken for information only. There is no specification currently defined for this characteristic.

Method:

- Use the Chatillion TCD200 Spring Testing Machine with the Chatillion Digital Force Gauge (0-10 lb. range). Use the disc probe (½ "dia.) on the gauge.
- Place the magazine box, bottom side down, on the staging table.
- · Zero force gauge with no load applied.
- Lower the gauge until it just touches the magazine follower, approximately in the middle location both side to side and front to rear.
- Zero force gauge again if necessary.
- Lower the gauge 0.200" and take the spring force measurements.
- Lower the gauge another 1.0".
- Take the force measurement at this depressed location of the spring.
- Repeat procedure two additional trials for each box
- Average the 3 trials for each box and at each measurement location.

Data Required:

- Force Measurements taken on each trial per box at each of the measurement locations.
- The Average Force measurement per box.
- The serial number of the Chatallion Digital Force Gauge used for the procedure.

TLW0300N - Measure Firing Pin Head / Sear Engagement:

The vertical engagement of the contact between the firing pin head and sear will be measured. The minimum vertical engagement to be .049".

Method:

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- Use digital height gauge and one-tenth dial indicator attachment.
- Visually check to ensure the firearm is unloaded.
- Clamp firearm in portable vise and set on top of granite table
- Remove the bolt assembly.
- Place the safety in the "Fire" position.
- Use a small bubble level to level the top of the receiver relative to the granite table.
- Zero indicator on the receiver insert just rearward of the sear.
- · Lightly depress the sear until contact with the trigger is felt and hold in place.
- Indicate to the top of the rear portion of the sear and record the measurement.
- Reinstall the bolt assembly and close over an empty chamber.
- Use pin gauges to measure the gap between the receiver insert and the bottom of the firing pin head, record
 the gap width.
- Subtract the gap width from the indicated measurement and record as the firing pin to sear engagement.

Data Required:

- Firearm Serial Number
- Indicated measurement
- Pin gauge gap width measurement
- Firing pin head to sear engagement.

TLW03000 - Bolt Stop Function Check

The Bolt Stop will be checked for proper function. The bolt stop must prevent the bolt from being unintentionally withdrawn from the receiver when in the "locked" position and must permit the bolt to be withdrawn when in the "un-locked" position. Measure the amount of force required to move the bolt stop from the locked position to the un-locked position and record. Determine if the bolt stop can be operated by a bare hand and then a gloved hand without the aid of a tool.

Data required

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- Rifle serial number
- Measurements of force required to move bolt stop from the locked position to the unlocked position.
- Record check of bolt stop function relative to bolt retention
- Record whether bolt stop can be operated with bare hands and gloved hands.

TLW0300P - Function Check of ISS System:

To check the ISS system for proper function follow the four step procedure which follows. If the system fails during any of these procedures stop the test for that gun and continue with the next sample. To be considered a proper functioning ISS system each sample must pass all four of the procedures as outlined below.

- 1. Make sure the chamber and magazine box are completely empty of live ammunition. This test will involve the use of a primed case, use appropriate safety procedures. This test should be performed with the muzzle of the gun inserted into a shooting port or other approved device. With the bolt in the open and un-locked position and safety "On", using the ISS tool, lock the ISS System in the secure mode (no red dot visible) and remove tool. Attempt to close and lock up the bolt after placing a primed case into the chamber. You should not be able to close and lock the bolt easily, without applying excessive force. If the bolt cannot be closed the test sample passes the test. (Note: If the bolt can be closed, place the safety in the "Fire" position and then pull the trigger. The firing pin must not fall and set off the primed case. If the primed case fires then the test sample fails the test. If the primed case does not fire, attempt to unlock the ISS with the tool. Be careful, only apply enough force to see if you can unlock the ISS, without bending the tool. If the primed case is fired at any time during this procedure the test sample fails the test. If the primed case does not fire the test sample passes the test.) Record outcome of all steps taken and Pass/Fail results.
- 2. If the test sample passes the above test in either of the two possible ways (bolt cannot be closed or primed case does not fire) then perform the following test. Open the bolt and move partially to the rearward position (do not open bolt far enough to eject the primed case), unlock the ISS System (red

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dot visible) using the ISS tool. Move the safety to the "On Safe" position if it is not already there. Remember that there is still a primed case in the chamber. Push the bolt forward slowly, rechambering the primed case, and fully lock the bolt. Make sure the muzzle of the rifle is in the port of the shooting station (or other approved device). Place the Safety in the "Off Safe" position and pull the trigger, the firing pin must fall and set off the primed case. If the primed case is not fired then the test sample fails. Record results.

- 3. If the system passes both tests above then perform this procedure. Make sure the gun is completely unloaded of live ammo or primed cases. Open the bolt to the rearward position and put the safety in the "On Safe" position. Rotate the ISS to the locked position (no red dot visible) using the ISS tool and then attempt to unlock the ISS first using your fingers and then using a small screwdriver. You must not be able to unlock the ISS System. (Be careful, do not use excessive force when using the screwdriver, you just want to determine that the system will not unlock without the use of the proper tool.) Record results.
- 4. For the final check unlock the ISS system using the ISS tool and make sure the safety is in the "On Safe" position. Close and lockup the bolt on an empty chamber. Using the ISS tool attempt to lock the ISS system. Be careful, do not use excessive force or the ISS tool will be damaged. You should not be able to lock the ISS system with the bolt closed on a M/710. Record results.

Data required:

- Rifle serial numbers
- Record results for all four phases of the ISS System function check.

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TLW0300Q - Magazine Box Weld Strength Test:

Provide selected magazine box samples from the T & P lot to M. Jiranek, Metallurgist, for evaluation. Samples will be strength tested via previously established procedures to determine the amount of force required to fail the magazine box spot welds. The pass/fail criteria is that all boxes tested must fail at a load equal to or greater than 2,000 lbs. force.

TLW0300AT - Perform Bore Sighting Using Bushnell Scope.

Prior to the start of any live fire or accuracy testing a sample of the rifles will be inspected to determine if Mayfield has performed a bore sight check/adjustment after mounting the Bushnell Scopes. Use rifles A21 – A30. Use standard Bore sighting procedures in the Long Range sighted in at 100 yards. One 5 shot group will be fired through each rifle to establish POI relative to POA. Note: Do not make any adjustment to the scope. They should be fired as received unless alignment of the scope to the bore is off considerably.

Data required:

- Rifle serial number
- POI relative to Point of Aim for each rifle
- Review results prior to further live fire testing of the test lot.

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GUN CHARACTERISTICS - TLW0300R through TLW0300S:

TLW0300R - Balance Point - "System (includes the Scope and mount rails)":

Establish the balance point for this firearm system (This measurement will also be used later for the SAAMI drop test.)

Method:

- Using a right angle block from the metrology lab, invert the block to provide a "sharp edge".
- Close the action over an empty chamber and with the magazine empty
- Using two hands, carefully place the firearm in a horizontal orientation, over the edge of the angle block with the bottom of the firearm in the down position.
- Again, using two hands, one on each side of the block edge about one foot from the block edge front to rear,
 carefully place the firearm on the edge and attempt to locate the balance point.
- With the assistance of another individual, place a light pencil mark at the likely balance point. After removing the firearm from the edge, measure the distance to the breech bolt face with the bolt in the closed position. (The position of the breach bolt face can be determined by inserting a long rod into the muzzle end of the barrel with the bolt closed. With the rod fully inserted up against the bolt face mark the rod at the location of the muzzle end of the barrel. Remove the rod from the barrel and transfer this measurement to the exterior of the gun by laying the rod along side the barrel after lining up the muzzle with the mark on the rod. The distance from the balance point to this breach bolt face mark is the location of the balance point.)
- Repeat this procedure for the following condition:
 - Using .30-06 dummy shells, place one in the chamber and four in the magazine, close the action and determine the balance point per the above procedure.

Data Required:

- Record rifle serial number
- · Record balance point with firearm "empty"
- · Record balance point with firearm "loaded"

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TLW0300S - Balance Point - Rifle Only (Without Scope, rails and Iron Sights):

Establish balance point for this firearm. (This measurement will be used later for SAAMI drop test.)

Method:

- Using a right angle block from the metrology lab, invertible block to provide a "sharp edge".
- Close the action over an empty chamber and with the magazine empty
- Using two hands, carefully place the firearm in a horizontal orientation, over the edge of the angle block with the bottom of the firearm in the down position.
- Again, using two hands, one on each side of the block edge about one foot from the block edge front to rear,
 carefully place the firearm on the edge and attempt to locate the balance point.
- With the assistance of another individual place a light pencil mark at the likely balance point. After removing the firearm from the edge, measure the distance to the breech bolt face with the bolt in the closed position. (The position of the breach bolt face can be determined by inserting a long rod into the muzzle end of the barrel with the bolt closed. With the rod fully inserted up against the bolt face mark the rod with a pencil at the location of the muzzle end of the barrel. Remove the rod from the barrel and transfer this measurement to the exterior of the gun by laying the rod along side the barrel after lining up the muzzle with the pencil mark on the rod. The distance from the balance point to this breach bolt face mark is the location of the balance point.)
- Repeat this procedure for the following condition:
 - Using .30-06 dummy shells, place one in the chamber and four in the magazine, close the action and determine the balance point per the above procedure.

Data Required:

- Record rifle serial number
- Record balance point with firearm "empty"
- Record balance point with firearm "loaded"

FIREARMS MEASUREMENTS - TLW0300T THROUGH TLWOO10X:

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TLW0300T - Chamber cast:

Use the .30-06-chamber drawing LB-153 for reference

Method:

- Make chamber cast using standard procedure
- Use the 30" optical comparator
- Measure the following dimensions:
 - .4708/.4728
 - .4425/.4440
 - 34° 30" Angle
 - .3404/.3424
 - ,3095/,3105

Data Required:

- · Rifle serial numbers
- Record dimensions requested above

TLW0300U - Bore Diameter:

Measure Bore Diameter using standard procedures.

Method:

- Measure .30-06 caliber
- Dimension equals .300/301

Data Required:

- Rifle serial numbers
- Measurements of each bore by serial number

TLW0300V - Groove Diameter:

Measure Groove Diameter using standard procedures.

Method:

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- Measure .30-06 caliber
- Dimension equals .308/.309

Data Required:

- Rifle serial numbers
- · Measurements of each bore by serial number

TLW0300W - Twist Rate (.30-06)

Measure Twist Rate using standard procedures

Method:

- Measure .30-06 caliber
- 1 turn in 10" ± .25", RH

Data Required:

- Rifle serial numbers
- Measurements of each bore by serial number

TLW0300X - Magazine Capacity Test:

Fully loaded magazine boxes must be able to be inserted into the firearm with the bolt closed and in the locked position. For the Model 710 this means that a magazine loaded with 4 rounds should be able to be inserted into the rifle and latched properly when the bolt is fully closed and lucked up.

Method:

- · Check rifle for live ammunition
- With muzzle pointed in a safe direction, close the bolt and lock over an empty chamber
- · Remove the magazine from the gun and load 4 dummy rounds into the magazine

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- Insert magazine into the rifle, it must lock securely in place
- Cycle the 4 dummy rounds through the chamber and eject each round
- Remove the magazine box and repeat test two additional times per sample rifle.

Data Required:

- Rifle serial number
- Record any failures to load and cycle properly by box and rifle

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FUNCTION & ENDURANCE TESTING:

FUNCTION AND ENDURANCE TESTING - TLW0300Y THROUGH TLW0300AB

TLW0300Y - Ten (10) Round Safety Function Test with Lanyard:

As an additional safety precaution, each of the 30 sample rifles will be placed in the standard Remington test jack located in the Blow-Up Room and shot with ten rounds of standard load ammunition. Each shot will be fired with a lanyard with the shooter located ourside of the room when the rifle is fired. At the completion of the ten rounds the rifle and spent cases will be examined for any signs of damage or abnormal conditions.

TLW0300Z - Basic Jack Function Test (100 Rounds w/Rem. Ammo):

To get a picture of the product's functional capability, a 100 round per rifle jack function test will be conducted. Five bullet types will be used, 20 rounds (all Remington) of each in each rifle to evaluate the potential for feeding problems. The test will be conducted in the Remington test jacks (heavy configuration) with the "belly-protectors" in place and fully closed for each shot. All malfunctions and any unusual behavior will be noted on the data forms. The overall average of all sample rifles should be at or below 2-% malfunction rate. Up to two rifles from the sample of 30 are permitted to be removed from the averaging process if they have excessive malfunction rates relative to the remaining group of 28 samples. No major mechanical failures are allowed in the test sample. Major mechanical failures are defined as those failures that cannot easily be repaired with simple tools and/or readily available replacement parts. At the conclusion of this test the firearms will be carefully examined for signs of excessive wear, especially with respect to the plastic components.

Method:

- Check each rifle for the presence of the proof stamp(s) do not shoot unless the stamp(s) are present.
- Check each rifle for headspace
- Draw ammunition from stores—See test lab manager for ammo types to be used for this test.
- Each tester to have five rifles for test at any given time.

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- The muzzle of each rifle will be inserted into the shooting port and the rifle placed securely in the test jack before the rifle is loaded.
- Load four rounds into the rifle by loading four in the magazine and inserting the magazine into the gun. Do
 not shoot single shot by hand-feeding single rounds into the chamber.
- Push the safe to the "fire" position, be sure that the barrel is far enough within the port hole so that the
 muzzle will stay in the port when the rifle recoils. If there is any question, re-adjust the jack into a better
 position.
- With the lid on the belly protector closed, fire the first round in the chamber, listen for any off-sounds, and be alert for any other unusual behavior.
- Open the bolt; eject the spent round, note any extraction or ejection problems.
- Close the bolt to load the next round from the magazine into the chamber, note any feeding or stemming problems.
- Continue to fire the remaining rounds in the magazine until the last round is fired and the spent case is
 ejected.
- Push the Safety to "On Safe" position, the safety will be pushed to the fire position at the start of every five
 round trial and will be pushed to the On Safe position at the end of every five round trial. Repetitive action
 of the safety lever on the trigger assembly side-plate needs to be determined.
- After firing twenty rounds (1) box of ammo) the rifle will be checked carefully for the presence of any live
 ammunition and if empty will be removed from the test jack and placed in the cooling rack. The safety will
 be in the "On Safe" position and the bolt will be unlocked and fully open at all times. Compressed air may
 be used, if necessary to cool the inside of the chamber area if the rifle is excessively hot from firing.
- All malfunctions will be recorded on the data sheets.

Data Required:

- · Rifle serial number
- Tester's name
- Date of test firing
- The TLX業

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- The ammunition used for the test with the ammo lot code number of the rounds actually used
- Any malfunctions noted or other unusual items of note.

TLW0300AA - Extended Function & Endurance (400 Rounds w/Reng, & Competitive Ammo):

This Extended Function & Endurance Test will be shot to determine an estimate of the product's expected malfunction rate over an extended period of shooting. For purposes of definition, a component failure will be one that prevents (or could prevent) the firearm from functioning as intended. These are failures that can be fixed relatively easily by the simple replacement of a part such as could be done by the gun owner using only simple household tools. System failures are defined as failures of a major nature, the extent of which would require specialized tooling or methods to repair not normally available to the average gun owner. Such a repair would be most likely made by a qualified guissmith or by return to the factory.

This Extended Function & Endurance Test will be shot in the Remington test jacks (heavy configuration). The covers on the "belly-protectors" will be down and in-place for each test shot. Careful monitoring of each test gun is essential to evaluate the malfunction rate for each firearm.

Each rifle will be shot, using a variety of Centerfire ammunition comprised of light, medium and heavy bullets. In addition, ammunition from the three major manufacturers (Remington, Winchester and Federal) of Centerfire ammunition shall be included in the mix.

Each rifle will be shot no more than 20 rounds before being put aside for cooling. Compressed air applied to the inside of the chamber will be an acceptable method to assist in the cool-down process.

The test will be performed according to Remington's standard endurance test procedures for centerfire rifle. Rounds for this test will be ten rifles to 400 rounds each.

Record all instances of malfunctions and failures, and replace parts when they become unserviceable noting the round level when they were replaced.

After every 100 rounds one live round will be extracted and ejected from the chamber to check on live round ejection. The ejected round will then be re-inserted into the chamber and fired to help keep the endurance round count accurate...

Method:

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- Disassemble, thoroughly clean, lubricate per the design team's instructions, and re-assemble. Record headspace for each.
- Fire each test firearm in accordance with the firing procedure (number of rounds, firing cycle) specified by
 engineering and the test plan.
- Ammunition will be used that comprises at least five types of bullets, change ammunition type every 100 rounds
- Before commencing design acceptance testing, calibrate adjust or re-build the shooting jacks, if necessary.
- Allow the firearm to completely recover in the shooting jack between each shot and do not lean or "stiff
 arm" the firearm while shooting the gun.
- All ammunition is to be functioned through the magazine no "single shot" hand feeding permitted.
- Allow the rifle to cool between cycles. One cycle is 20 rounds fired. The use of forced air to accelerate
 cooling of the barrels between firing trials is permitted. The air should be directed from the chamber toward
 the muzzle to prevent it from washing the lubricant from the firearm's action.
- Cycle the safety from fire to safe every 5 rounds, from Safe to Fire at the start of the five round cycle and from Fire to Safe at the end of the 5 round cycle.
- After 400 rounds, disassemble, inspect, clean and lubricate the entire mechanism and take all required
 measurements.
- The Standard Remington lacks (using the heavy configuration) are to be used for this test.

Data Required:

- Rifle serial number
- Tester's name
- The Test Jack Identification
- TLW#
- Date of actual testing
- Headspace after the 400 round interval.
- Malfunctions per ammo type, breakage, and replacement parts used
- Any failure that requires the gun to be removed from testing completely.

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- Notify management of any unusual events or malfunctions immediately
- Any firing of the firearm without the trigger being pulled,
- · Record ammunition lot code information as it is used throughout the test.
- Bullet type used for each 20 rounds of the test.

TLW0300AB - Clean Rifles and Inspect:

After 400 rounds of Extended Function & Endurance, unless other wise specified, each rifle will be disassembled, cleaned and thoroughly inspected.

A list of inspection points will be provided in the gun packet for check-off and sign-off by the inspector. The inspector will be looking for any signs of unusual wear, especially on critical components and surfaces as well as for anything such as cracks or deformed material that might present a safety concern. Photographs will be taken to document unusual wear, damage or other notable characteristics. Use the following checklist for inspection:

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Clean & Inspect Checklist

| | | | - | | | |
|--------------|--------------------|-------------------------------------|-----------------------------|----------------|--------------------|--------------|
| | Model: | 710 | | Project | 241095 | |
| | Rifle: | | | TLW #: _ | TLW0300 | |
| | Date: | // | | Inspector: _ | | |
| | Round Leve | el: | | | | |
| | Measure Heads | pace | | | | |
| | Firing Pin Inde | nt 1 st 2 nd | 3 ⁿⁱ . | <u> </u> | Ave | _ |
| | Sear Engageme | | | | | |
| | Trigger Pull: | 1 st 2 ^{ml} . | ,3 rd ,_ | <u> </u> | Ave | |
| | Measure Feed L | .ip on Mag. Box at fr | ont: | _ & rear: | · | |
| C | heck the following | g areas for signs of ui | nus ual we ar or | breakage: | | |
| | Receiver | insert | | | | |
| | Rear sur | face of Bolt Lugs | | | | |
| | ☐ Check fo | r "gallin <mark>g" on</mark> rear o | f Bolt Lugs | | | |
| | ☐ Bolt Plug | 3 | | | | |
| | Bolt Plug | g Insert "ears" on fir | ing pin assemb | oly | | |
| | ☐ Check fo | r loose or missing pi | ns – make note | and re-stake | if necessary | |
| | □ Check pl | astic inserts for crac | ks or other da | nage. | | |
| T | ake digital phote | graphs, if appropriat | te, to record ur | usual wear, d | amage or other not | e- |
| W | orthy observation | ns. List the digital fil | le name for ref | erence along v | with any comments | |
| b | elow. | | | | | |
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ACCURACY TESTING:

ACCURACY AND POI TESTING - TLW0300AC THROUGH TLW0300AF

TLW0300AC - POI & Group Size - Initial Test with High Quality 36X Scope @ "zero" rounds

The point of impact test involves the verification of the firearms sighting system adjustment and the potential to hit the point of aim. Random variation and/or extreme difference in shot to shot point of impact (as well as group size) typically indicate improper barrel processing and is used as a final inspection flag in production. Shoot three, 5-shot groups from each test rifle. Use the same code of ammunition for all point of impact test shots.

Method:

- Pick the point of aim on the target
- Adjust point of aim to the bulls-eye at 100 yards.
- Shoot five "warmer" shots
- Shot three, 5-shot groups

Data Required:

- Measure the center of the impact groups to the point of aim in terms of "x" and "y" positions.
- Record takedown screw torque
- Record ammunition lot number used during the test
- · Record and label any fail-to-fire ammunition

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TLW0300AD (@zero) - Group Size at 100 yards (System Stability Test, w/Bushnell Scope @ "zero" rounds

One hundred-yard accuracy testing will be completed utilizing standard factory ammunition. The test will consist of three, 5-shot groups. Guns will be cooled after every other group. Each firearm will be cleaned and fired with five fouling shots prior to beginning the accuracy work-up. Group sizes will be measured from actual targets and recorded. The same code of ammunition and same type of ammunition will be used for all group size test shots. Average group sizes must be ≤ 2.7 ° at 100 yards.

Method:

- Fire three, 5-shot groups at 100 yards, for each ammunition type selected. Prior to beginning of the test, clean the bore and shoot 5 "fouling" shots to seat in the rifle.
- Cycle the safety from fire to safe every 5 rounds.
- · Accuracy can be shot from a recoiling rest or shoulder shooting is also acceptable.

Data Required:

- Measure group sizes center to center
- · Record takedown screw torque
- Record make and identifier of scope
- Record ammunition type used.
- Record ammunition lot numbers used during the test
- Record and label any fail-to-fire ammunition.
- Record any malfunctions that occur during the test.

TLW0300AE (@100)- Group Size at 100 yards (System Stability Test, w/Bushnell Scope @ "100" rounds

One hundred yard accuracy testing will be completed utilizing standard factory ammunition. The test will consist of three, 5-shot groups. Guns will be cooled after every other group. Each firearm will be cleaned and fired with five fouling shots prior to beginning the accuracy work-up. Group sizes will be measured from

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actual targets and recorded. The same code of ammunition and same type of ammunition will be used for all group size test shots. Average group sizes must be ≤ 2.7 ° at 100 yards.

Method:

- Fire three, 5-shot groups at 100 yards, for each ammunition type selected. Prior to beginning of the test, clean the bore and shoot 5 "fouling" shots to seat in the rifle.
- Cycle the safety from fire to safe every 5 rounds.
- Accuracy can be shot from a recoiling rest or shoulder shooting is also acceptable.

Data Required:

- Measure group sizes center to center
- Record takedown screw torque
- · Record make and identifier of scope
- Record ammunition type used.
- · Record ammunition lot numbers used during the test
- · Record and label any fail-to-fire ammunition.
- Record any malfunctions that occur during the test

TLW0300AF (@200) - Group Size at 100 yards (System Stability Test, w/Bushnell Scope @ "200" rounds

One hundred-yard accuracy testing will be completed utilizing standard factory ammunition. The test will consist of three, 5-shot groups. Guns will be cooled after every other group. Each firearm will be cleaned and fired with five fouling shots prior to beginning the accuracy work-up. Group sizes will be measured from actual targets and recorded. The same code of ammunition and same type of ammunition will be used for all group size test shots. Average group sizes must be ≤ 2.7 ° at 100 yards.

Method:

• Fire three, 5-shot groups at 100 yards, for each ammunition type selected. Prior to beginning of the test, clean the bore and shoot 5 "fouling" shots to seat in the rifle.

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- Cycle the safety from fire to safe every 5 rounds.
- Accuracy can be shot from a recoiling rest or shoulder shooting is also acceptable.

Data Required:

- Measure group sizes center to center
- Record takedown screw torque
- Record make and identifier of scope
- · Record ammunition type used.
- · Record ammunition lot numbers used during the test
- Record and label any fail-to-fire ammunition
- Record any malfunctions that occur during the test

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ENVIRONMENTAL TESTING:

TEMPERATURE & HUMIDITY - TLW0300AG THROUGH TEW0300AI

TLW0300AG - Hot Function Test:

This test evaluates the effect of extreme high temperatures on the functioning performance of firearms. Method:

- Condition test firearm and 100 rounds of ammunition in a climatic chamber for at least 6 hours at a temperature of 120 degrees F. (or as close to \$20 degrees F. as the equipment can be maintained.)
- Test each firearm after removing from the chamber as follows:
 - Fire 20 rounds of ammunition. Replace the rifle in the chamber. Wait 2 hours and repeat procedure until all 100 rounds have been fired.
 - Do not perform maintenance during the 100 round cycle.
 - Cycle the safety from fire to safe every 5 rounds.
 - The tester should wear gloves to protect his hands from the hot metal.
- After 100 rounds have been fixed through each fixearm, disassemble, thoroughly inspect, clean and lubricate.
 Data Required:
- · Record temperature and exposure times
- Record all malfunctions;
- Record damage noted during inspection

TLW0300AH - Cold Function Test:

This test evaluates the effect of extreme low temperatures on the functioning performance of the firearms. Shoot the firearm after removing from the environmental test cabinet.

Method:

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- Condition the firearm and 100 rounds of ammunition of climatic chamber for at least 6 hours at a temperature of -20 degrees F.
- Test each firearm after removing from the chamber as follows:
- Fire 20 rounds of ammunition. Return the firearm to the chamber. Wait 2 hours and repeat procedure until all 100 rounds have been fired.
- Do not perform maintenance during the 100 round cycle.
- Cycle the safety from fire to safe every 5 rounds
- After 100 rounds have been fired through the firearm, disassemble, thoroughly inspect, clean and lubricate.

Data Required:

- Record temperature and exposure times
- Record all malfunctions.
- Record damage noted during inspection

TLW0300AI - Heat & Humidity Function Test:

Method:

- Shoot the firearm after removing from the environmental test cabinet in the long range.
- Store the gun and ammunition for a minimum of six hours at a temperature of +100°F and 80-90% Relative Humidity.
- Test each firearm after removing from the chamber as follows:
- Fire 20 rounds of ammunition. Return the firearm to the chamber. Wait 2 hours and repeat procedure until all 100 rounds have been fired.
- Do not perform maintenance during the 100 round cycle.
- Cycle the safety from fire to safe every 5 rounds.
- After 100 rounds have been fired through the firearm, disassemble, thoroughly inspect, clean and lubricate.

Data Required:

Record temperature and exposure times

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- Record all malfunctions.
- · Record damage noted during inspection

ABUSIVE TESTING

IMPACT TESTING - TLW0300AJ THROUGH TLW0300AM

TLW0300AJ - SLAM Test:

For this test the sample firearm will be placed in the standard Remington test jack. Four live rounds will be loaded into the rifle's magazine and the magazine installed in the rifle. The tester will use a glove for hand protection. Note: The ISS system should be placed in the unlocked (red dot visible) position for the duration of this test.

For each of the four rounds in the magazine the tester will close the bolt "smartly" – (i.e. as quickly as practical) – and be prepared for the rifle to inadvertently follow down or fire. After each bolt closing the round will be fired then the bolt will be opened and the spent round will be ejected and the next round in the box will again be loaded into the chamber in a "smart" manner. The purpose of this test is to determine if the firing pin will "follow-down" if the round is rammed home into the chamber as quickly as possible. Repeat this cycle until all 20 rounds of the test are completed. There should be no follow-downs or inadvertent firings.

Data required:

- · Record whether or not the firearm fires or follows-down.
- · Record round level on the firearm.
- Record the serial number of the rifle

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TLW0300AK - SAAMI Drop Test - "System' (Includes the Scope and Mounting Rails):

This test will simulate abusive dropping of the firearm from a distance of 48 inches onto a 1" thick 85 durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight will be adjusted to minimum specification (4 lb.) The Trigger/Sear engagement will be set to the minimum specification (0.020"). Test will be performed according to SAAMI Technical Committee procedures. Magazine capacity will be filled according to SAAMI procedures. After each series of test, the primed case will be discharged to insure validity of test. This test will be performed on a sample of six firearms of 30-06 caliber.

Method:

- With the firearm safety in the SAFE state, the firearm shall be eapable of passing the below test criteria for drop testing from a height of four feet onto an 85±5 Durometer, Shore A, rubber mat, one-inch thick backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall and come to rest without interference within the perimeter of the mat. The four feet shall be measured from the surface of the rubber mat to the center of gravity of the firearm. The center of gravity shall be determined to an accuracy of ± one inch by any recognized method for finding the center of gravity of an irregular shaped object. The primed case shall be discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh" firearm may be substituted into the test at any point.
- The firearm or firearms shall be dropped in such a way as to strike the rubber mat surface once in each of the following attitudes:
 - Barrel vertical muzzle down.
 - Barrel vertical muzzle up.
 - Barrel horizontal, bottom up.
 - Barrel horizontal, bottom down.
 - Barrel horizontal, left side up
 - Barrel horizontal, right side up.
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated as in the owner's manual.

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- The test shall be conducted with the magazine or clip fully loaded with dummy cartridges and inserted in the firearm.
- Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty
 primed case does not fire and the firearm can be unloaded safely after each drop. More stocks or receiver
 inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part
 cracks or breaks- replace before continuing test.

Data required:

- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- Record round level

TLW0300AL - SAAMI Jar-Off Test "System" (Includes the Scope and Mounting Rails):

The objective of the jar-off test is to simulate the abusive impacting (bumping) of the firearm against a hard surface with the firearm in a condition of maximum readiness. With the firearm in the ready to fire condition, the firearm shall be capable of withstanding a jar-off shock equivalent to being dropped from a height of 12" inches onto a 1" thick 85 Durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight and engagement will be adjusted to minimum specification, 4 lbs. and .020 inch respectively. The test will be performed according to SAAMI Technical Committee procedures. Magazine will be loaded to maximum capacity with dummy rounds according to SAAMI procedures. A fresh primed case will be chambered prior to each drop. After each drop the primed case will be discharged to verify its validity. This test will be performed on a sample of six firearms of 30-06 caliber.

Method:

With the firearm cocked and the safety in the FIRE position the firearm shall be capable of withstanding jaroff shock equivalent to being dropped from a height of twelve inches onto a 85±5 Durometer, Shore A,
rubber mat one-inch thick backed by concrete. The mat and concrete shall be large enough so that when

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the gun is dropped it will fall within the perimeter of the mat striking the mat once. The twelve inches will be measured from the test surface to the lowest point on the firearm. As an afternate to free dropping, other methods may be substituted if they provide equivalent impact characteristics. The primed case shall be discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh" firearm may be substituted into the test at any point.

- The firearm or firearms shall be dropped in such a way as to strike the rubber mat surface once in each of the following attitudes:
 - Barrel vertical, muzzle down.
 - Barrel vertical, muzzle up.
 - Barrel horizontal, bottom up
 - Barrel horizontal, bottom down
 - Barrel horizontal, left side up
 - Barrel horizontal, right side up
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated per the owner's manual.
- The test shall be conducted with the magazine or slip fully loaded with dummy cartridges and inserted in the firearm
- Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop. More stocks and receiver inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part cracks or breaks - replace before continuing test.

Data required:

- Record engagement and trigger pull.
- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- Record the round level on the firearm.

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TLW0300AM - SAAMI Rotation Test - "System" (Includes the Scope and Mounting Rails):

The test will be conducted according to SAAMI Technical Committee procedures. The firearm will be placed in the "Safe Carrying" condition and dropped from an upright position with its butt resting on the surface of a 1" thick 85 durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight and engagement will be adjusted to minimum specification, 4 lbs. and .020 inch respectively. Magazine will be loaded to maximum capacity with dummy rounds according to SAAMI procedures. The firearm shall be tested (dropped) on both the right and left sides. After each rotation, the primed case will be discharged to insure validity of test.

Method:

- With the firearm safety in the SAFE state, the firearm shall be capable of passing the below test criteria when allowed to fall freely from an upright position with its butt resting on the surface of a 85±5 Durometer, Shore A, rubber mat, one-inch thick backed by concrete. The mat and concrete shall be large enough so that when the gun falls it will come to a rest without interference within the perimeter of the mat. The firearm shall be tested so as to fall once on its right-hand side and once on its left-hand side. The primed case shall be discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh" firearm may be substituted into the test at any point.
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated per the owner's manual.
- The test shall be conducted with the magazine or clip fully loaded with dummy cartridges, inserted in the firearm.
- Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty
 primed case does not fire and the firearm can be unloaded safely after each drop. More stocks or receiver
 inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part
 cracks or breaks-replace before continuing test.

Data required

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- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- · Record round level on the firearm

TLW0300AN - SAAMI Drop Test - Rifle Only (Without the Scope and Mounting Rails and Iron Sights):

This test will simulate abusive dropping of the firearm from a distance of 48 inches onto a 1" thick 85 durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight will be adjusted to minimum specification (4 lb.) The Trigger/Sear engagement will be set to the minimum specification (0.020"). Test will be performed according to SAAMI Technical Committee procedures. Magazine will be loaded to maximum capacity with dummy rounds according to SAAMI procedures. After each series of test, the primed case will be discharged to insure validity of test. This test will be performed on a sample of six firearms of .30-06 caliber. Method:

- With the firearm safety in the SAFE state, the firearm shall be capable of passing the below test criteria for drop testing from a height of four feet onto an 85±5 Durometer, Shore A, rubber mat, one-inch thick backed by concrete. The mat and concrete shall be large enough so that when the gun is dropped it will fall and come to rest without interference within the perimeter of the mat. The four feet shall be measured from the surface of the rubber mat to the center of gravity of the firearm. The center of gravity shall be determined to an accuracy of ± one inch by any recognized method for finding the center of gravity of an irregular shaped object. The primed case shall be discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh" firearm may be substituted into the test at any point.
- The firearm or firearms shall be dropped in such a way as to strike the rubber mat surface once in each of the following attitudes:
 - Barrel vertical, muzzle down.
 - Barrel vertical, muzzle up
 - Barrel horizontal, bottom up.
 - Barrel horizontal, bottom down.
 - Barrel horizontal, left side up

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- Barrel horizontal, right side up.
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated as in the owner's manual.
- The test shall be conducted with the magazine or clip failly loaded with dummy cartridges and inserted in the firearm.
- Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty
 primed case does not fire and the firearm can be unloaded safely after each drop. More stocks or receiver
 inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part
 cracks or breaks- replace before continuing test.

Data required:

- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- · Record round level

TLW0300AO - SAAMI Jar-Off Test — Rifle Only (Without the Scope and Mounting Rails and Iron Sights):

The objective of the jar-off test is to simulate the abusive impacting (bumping) of the firearm against a hard surface with the firearm in a condition of maximum readiness. With the firearm in the ready to fire condition, the firearm shall be capable of withstanding a jar-off shock equivalent to being dropped from a height of 12" inches onto a 1" thick 85 Durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight and engagement will be adjusted to minimum specification, 4 lbs. and .020 inch respectively. The test will be performed according to SAAMI Technical Committee procedures. Magazine will be loaded to maximum capacity with dummy rounds according to SAAMI procedures. A fresh primed case will be chambered prior to

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each drop. After each drop the primed case will be discharged to verify its validity. This test will be performed on a sample of six firearms of .30-06 caliber.

Method:

- With the firearm cocked and the safety in the FIRE position the firearm shall be capable of withstanding jaroff shock equivalent to being dropped from a height of twelve inches onto a 85±5 Durometer, Shore A,
 rubber mat, one-inch thick backed by concrete. The mat and concrete shall be large enough so that when
 the gun is dropped it will fall within the perimeter of the mat striking the mat once. The twelve inches will
 be measured from the test surface to the lowest point on the firearm. As an alternate to free dropping, other
 methods may be substituted if they provide equivalent impact characteristics. The primed case shall be
 discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh"
 firearm may be substituted into the test at any point.
- The firearm or firearms shall be dropped in such a way as to strike the rubber mat surface once in each of the following attitudes:
 - Barrel vertical, muzzle down
 - Barrel vertical, muzzle up
 - Barrel horizontal, bottom up
 - Barrel horizontal bottom down
 - Barrel horizontal, left side up.
 - Barrel horizontal, right side up.
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated per the owner's manual.
- The test shall be conducted with the magazine or clip fully loaded with dummy cartridges and inserted in the firearm.
- Parts breakage or other damage as a result of drop testing does not constitute failure as long as the empty primed case does not fire and the firearm can be unloaded safely after each drop. More stocks or receiver

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inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part cracks or breaks- replace before continuing test.

Data required:

- Record engagement and trigger pull.
- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- Record the round level on the firearm.

TLW0300AP - SAAMI Rotation Test - Rifle Only (Without Scope and Mounting Rails):

The test will be conducted according to SAAMI Technical Committee procedures. The firearm will be placed in the "Safe Carrying" condition and dropped from an apright position with its butt resting on the surface of a 1" thick 85 durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight and engagement will be adjusted to minimum specification, 4 lbs. and .020 inch respectively. Magazine will be loaded to maximum capacity with dummy rounds according to SAAMI procedures. The firearm shall be tested (dropped) on both the right and left sides. After each rotation, the primed case will be discharged to insure validity of test.

Method:

- With the firearm safety in the SAFE state, the firearm shall be capable of passing the below test criteria when allowed to fall freely from an upright position with its butt resting on the surface of a 85±5 Durometer, Shore A, rubber mat, one-inch thick backed by concrete. The mat and concrete shall be large enough so that when the gun falls it will come to a rest without interference within the perimeter of the mat. The firearm shall be tested so as to fall once on its right-hand side and once on its left-hand side. The primed case shall be discharged following the drop and a fresh primed cartridge re-chambered prior to the next drop. A "fresh" firearm may be substituted into the test at any point.
- Tests shall be conducted with the trigger pull force set at the minimum force specified, with engagement set to the minimum specified, and with the firecontrol lubricated per the owner's manual.
- The test shall be conducted with the magazine or clip fully loaded with dummy cartridges, inserted in the firearm

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Parts breakage or other damage as a result of drop testing does not generate failure as long as the empty
primed case does not fire and the firearm can be unloaded safely after each drop. More stocks or receiver
inserts may be required than the amount of test guns to allow for breakage due to the drop testing. If a part
cracks or breaks-replace before continuing test.

Data required:

- Record whether or not the firearm fires an empty primed case of its designated cartridge when tested in accordance with this procedure.
- · Record round level on the firearm

INTENTIONAL ABUSE- TLW0300AV THROUGH TLW0300AX

Note that for all of the following tests, the rounds are to be loaded remotely and the test setup shall have the capability of unloading live rounds remotely if required.

TLW0300AQ - Pierced Primer Test:

For this test, a firing pin will be altered to have a "wedge-shaped" point. This type of firing pin point should produce a pierced primer when fired. The purpose of piercing the primer is to allow high-pressure gases from a standard factory round escape into the action and thereby determine the effect of high-pressure gases when dumped into the bolt, magazine box and receiver areas. All standard Remington high-pressure ammunition safety procedures will be used for this test. A standard round of .30-06 ammunition will be used.

After firing the rifle will be examined for damage. Photographs of damaged components will be taken and kept for record. The rifle will be tagged and saved for possible future review.

Method:

- Position firearm in test jack located in the "Blow-up" room with the muzzle through the port.
- Set witness paper at the rear of the action perpendicular to the bore.
- Locate witness paper at the approximate location expected for the shooter's face.
- · Set up the High Speed Video to tape the firing test.

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- Fasten a lanyard around the stock and run through the trigger guard in front of the trigger.
- Load a standard factory .30-06 round into the chamber, and carefully close the bolt.
- All personnel are to leave the room.
- . When ready to conduct the test start the high speed video and pull the lanyard
- Carefully examine the scene looking for any broken or missing parts, holes in the witness paper etc.

Data Required:

- · Rifle serial number.
- The condition of the witness paper.
- Notes of any broken or missing parts.
- Photographs of broken or missing parts.

TLW0300AR - High Pressure Test:

One rifle will be tested with a handload generating approximately 120,000 psi peak chamber pressure. The purpose of this test is to determine the extent of gun damage if any that occurs if an individual does purposely or accidentally handload an extremely high pressure load. Use standard Remington high-pressure ammunition safety procedures for these tests. The pressures for the test round will be worked up using various grain size loads giving pressures below 95,000 psi, (approaching the limits of the transducer gauges.) The grain size load will be plotted and a curve extrapolated to determine the load expected to produce a load of approximately 120,000-psi.

All testing will be done in the blow-up room using the high-speed video camera and witness paper. Before removing or otherwise disturbing the test samples after blow-up, photographs will be taken for the record. After collection and removal of the parts additional photographs of the various individual components will be taken for the record. All parts will be put in sample bags, boxed and temporarily stored for review if required.

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TLW0300AS - Obstructed Bore Test:

One of the sample rifles will have a rifle bullet driven into the bore from the breech end to a position immediately ahead of the chamber. A standard round (.39-96, 220 gr. factory load) will be loaded and fired remotely. All testing will be done in the blow-up room using the high-speed video camera and witness paper. Before removing or otherwise disturbing the test samples after blow-up photographs will be taken for the record. After collection and removal of the parts additional photographs of the various individual components will be taken for the record. All parts and will put in sample bags, boxed and temporarily stored for review if required.

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