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Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
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TLW 1012**TLW1012L -Safety Operation (SAAMI Test):**

This S.A.A.M.I. required test measures the operation of the manual safety to determine if the force required to move the safety from the "safe" to the "fire" position is less than 1 lb.. In addition, an examination of the safety is made to determine if the "fire" and "safe" position of the safety are clearly discernible to the user. Finally, a 40 lb. load is applied to the trigger from several directions with the safety in the "on" or "safe" position to determine that the mechanical operation of the safety is not impaired.

Method:

- Inspect and verify the rifle is not loaded and the safe is in the "On-Safe" position.
- Close the action.
- With the rifle's safety in the "On-Safe" position, use the Chatillion 40 lb. gauge with a "V" notch attached and carefully push the safety to the "fire" position and measure the force required to move the safety. Perform 3 trials for each rifle and record all three force measurements. These will be averaged to determine the final force measurement for each rifle.
- Make a specific observation as to the location of the "on-safe" and the "fire" positions and determine if there is a discernible "detent" detectable when the safety is moved between the two positions. Record the observation that there either is or that there isn't a discernable "detent" for each sample rifle.
- Finally, lock the rifle securely in a holding device and proceed to apply a 40-lb. load to the trigger. Place the Chatillion 50 lb. gauge v-notch in each of four locations from the front (or as close as you can get from the front.) Then from the rear of the trigger (or as close as you can get from the rear.) Finish by applying the 40 lb. load to the trigger, first from the left side and then from the right side) in turn and apply a 40-lb. load. In each application of the 40-lb. load, placement of the load should be at about the center of the finger curve of the trigger. After each application of the load test the fire control mechanism by attempting to pull the trigger with the safe in the "on-safe" position and the rifle pointed in a safe direction. Gun must not fire. Push the safety to the "fire" position. Gun must not fire when the safety is moved to the "fire" position. Finally, with the rifle still pointed in a safe direction, pull the trigger, the firing pin must release to the fired position.

Data required:

- Rifle serial number
- Measurements of Trigger pull, engagement, over-travel and trigger/trigger guard clearance before and after loading.
- Note that the rifle "fired" or did not fire when the safety was pushed to the "Fire" position.
- Note that the rifle did "fire" when the trigger was pulled.
- TLW Number
- Testers' Names

TLW1012M - 40 lb. Trigger Pull Test (Remington Test):

This test is conducted to determine if the safety mechanism will release the trigger mechanism and cause the firearm to discharge if the shooter pulls the trigger intentionally or accidentally with the safety in the "On-Safe" position. In addition, sufficient force is applied to the trigger with the safe in the "On-Safe" position to assure that the trigger dimensions will not change thereby affecting trigger/sear engagement. Prior to start of test verify that trigger pull, engagement and over-travel are within recommended specifications on the sample rifles.

Method:

- Inspect and verify the rifle is not loaded and the safe is in the "On-Safe" position.
- Close the bolt.
- Locate the firearm in a horizontal position with the muzzle pointed in a safe direction.
- Using the set of plug gauges determine the amount of minimum clearance between the rear of the trigger and the inside rear of the trigger guard. This dimension will be used as a reference to determine if the loading in the next steps has deformed the trigger.
- With the safe in the "On-Safe" position, "load" the trigger with the equivalent of a 40-lb. weight using the Chatillion 0-50 lb. digital force gauge.
- Remove the load from the trigger.

J.R. Snedeker

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03/21/03

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Revision # 1.3

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