

**CONFIDENTIAL**

Remington Arms Company Inc.  
RESEARCH & DEVELOPMENT TECHNICAL CENTER  
315 WEST RING ROAD  
ELIZABETHTOWN, KY 42701

**TLW0010J - Measure Recoil Force:**

Using the Remington designed recoil force device, measure the recoil forces for both the .30-06 and .270 caliber rifles. This test will only be done during Phase II with the synthetic stocks assembled to the actions. The measurements will be taken for information only.

**Method:**

- Assemble device to stock.
- Shoot the test in "blow-up" range using the jack. Fire the rifle remotely. (As an alternative, the rifle may be shot from the shoulder, with prior review of the safety status of the firearms.)
- Use the round with the heaviest available factory bullet.
- Shoot ten rounds per sample rifle.
- Average the ten rounds for each sample.

**Data Required:**

- Rifle serial number
- The peak force and area under the curve will be calculated for each shot for which data is captured.
- A plot of each shot, 4 signals captured per shot (3 for force and 1 for acceleration.)
- The average for peak force and areas under the curve of the ten trials per rifle.

**TLW0010K - Measure Lock Time:**

Using the Remington method of measuring Lock Time, measure the lock time on the sample rifles provided. Do three trials on each sample rifle. Average the three trials. This data is for information only. The expectation is that lock time will be in the 3-msec. range. This test is scheduled for Phase I testing but may have to be postponed until Phase II if the metal stocks create a measurement problem.

**Method:**

- Standard Remington Lock Time Measurement procedure. (Sear Safety Cam release to 1<sup>st</sup> firing pin contact with the primer.)

J.R. Snedeker

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