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

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 face with the bolt in the closed position. (The position of the breech face was determined when the barrel length was measured. This location, that is, the breech face can be established by measuring the specific distance from the muzzle to outside of the receiver and marked accordingly. The distance from the balance point to this breech 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 measure the distance to the bolt face.

Data Required:

- Record rifle serial number
- Record balance point with firearm empty
- Record balance point with firearm “loaded”

J.R.Snedeker

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