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

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, 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 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"

J.R.Snedeker
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