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Remington Arms Company Inc.

RESEARCH & DEVELOPMENT TECHNICAL CENTER
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M/710 Testing
"Holeless" Connector and Tempered Scope Mount Screw Test

Description:

Mayfield and E-town Firearm Design personnel proposed eliminating the hole in the connector for the M/710 since it serves no function in this model. This simplifies manufacture and results in a less expensive part. Mayfield and E-town Test jointly agreed on a 15 gun test where 8 rifles would be built in .30-06 caliber and 7 in .270 Win. Caliber. About this same time Mayfield had a need to test a heat treat change to the scope mount screws also used on the 710. It was decided to test both of these changes concurrently.

A test outline was agreed to that consisted of the following measurements and tests:

- **Measurements as Rec'd (All 15 guns)**
  - **Trigger Pull (spec. is 4.0 – 5.5 lbs.)**
  - **Engagement (spec. is .020 - .025 in.)**
  - **Over travel (spec. is .20 - .025 in.)**
  - **Headspace**
- **Proof and Re-measure Headspace (All 15 guns)**
- **SAAMI Jar-Off, Drop Rotation (6 guns: 3 of each cal. chosen at random)**
  - **Drop with scopes mounted (Use std. Screws)**
  - **Set fire controls to process minimums**

    TRIGGER PULL: 4.0 lbs.
    ENGAGEMENT: 0.020 in.
- **Extended SAAMI Jar-Off Only (same 6 guns) – <u>For Information Only</u>**
  - **Drop with scopes mounted (Use std. Screws)**
  - **Set fire controls to process minimums**

    TRIGGER PULL: 4.0 lbs.
    ENGAGEMENT: 0.020 in.
- **100 Rd. Jack Fcn. Test (9 guns)**
  - Shoot with scopes mounted on 8 guns, 9th gun has no scope mounted
    - Use special mount screws provided (tempered screws)
    - Use Loctite 222MS and torque screws to 15 – 20 in. lb.
  - Fire 100 rds/gun, heavy shooting jacks (any ammo-note what's used)
  - Track malfunctions
  - Pay special attention to fire control function and feel
  - Cycle Safety from Fire to Safe every feeding cycle
  - Check Scope mount screws for tightness after firing 100 rds
  - Remove and inspect screws for cracks after firing