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*Remington Arms Company Inc.*RESEARCH & DEVELOPMENT TECHNICAL CENTER  
315 WEST RING ROAD  
ELIZABETHTOWN, KY 42701M/710 Testing"Holeless" Connector and Tempered Scope Mount Screw TestDescription:

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) – For Information Only**
  - 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 Fen. Test (9 guns)**
  - Shoot with scopes mounted on 8 guns, 9<sup>th</sup> 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

April '02 – M/710 Testing – "Holeless" Connector and Tempered Scope Mount Screw Test;  
R & D Technical Center Project No. 241230; TLW 0822  
file: C:\Program Files\TCDF\CrackerLoader\REM\REM\email\rawblob\20060120103807A00009994.doc

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Subject to Protective Order - Williams v. Remington

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