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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, 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

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\TCDE\CrackerLoader\REM\REM\email\rawblob\20060119142156A00005246.doc

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Subject to Protective Order - Williams v. Remington

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