



An X means that this test is to be done at the sample size listed to the left. Exceptions are noted. With the current fire control I would only test the .243 Win. in the SAAMI Jar-Off, Drop and Rotation tests since this will be the heaviest version of the 710 made to date.

Let me know if you have any questions.

Scott

**From:** Bristol II, Ronald H  
**Sent:** Wednesday, June 29, 2005 6:52 PM  
**To:** Franz, Scott; Trull, John  
**Subject:** RE: Re: Model 710 Short Action Test Plan  
**Sensitivity:** Confidential

I want a test plan assuming a spl fire control and a test plan assuming same fire control as now  
 thanks

**From:** Franz, Scott  
**Sent:** Wed 6/29/2005 10:24 AM  
**To:** Bristol II, Ronald H; Diaz, Danny; Lance, Kevin D.  
**Cc:** Millner, Tommy; Campbell, Don H.; Trull, John; Norton, Vince; Snedeker, Jim; Reesor, Phillip K.  
**Subject:** Re: Model 710 Short Action Test Plan

Ron,

As requested we have reviewed this program with Diaz's group and Mayfield and have put together a test plan to qualify this product for production. The short action utilizes the same parts as the existing M/710 with the following exceptions:

#### PART DIFFERENCES

- Magazine Box
- Magazine Follower
- Magazine Box Bottom
- Receiver Insert
- Support Bracket
- SPL Fire Control
- Magazine Box Spacer

Changes to the stock tool will be required to add additional clearance for the safety arm/button and the fire control housing. The receiver rear diameter that accepts the new insert will also be different (larger) than the existing M/710.

With these changes the main focus in testing will be accuracy (for the 3 new calibers), feeding, and then function, endurance and abuse testing due to the integration of a new fire control in the Model 710 action. Based on manufacturing methods to produce parts, the long tooling lead times, and the risk involved a combined DAT/T&P test was requested. I concur with this approach. Since this will also be a T&P class test we should still sample product from a larger pool. With three calibers Mayfield's plan to build 50 guns/caliber should be adequate. We will randomly select 10 guns of each caliber for our test for a total sample size of 30 guns. With that said the following tests are planned:

#### TEST & MEASUREMENTS

- Out of Box Inspection (All 30 Guns)
  - (Packaging, cosmetics, etc.)
- Preliminary Measurements & Tests (All 30 Guns)
  - Headspace/Proof/Headspace
  - Check Chamber Dimensions, Bore, Groove, Twist Rate
  - Check Bolt Head and Barrel Hardness
  - Firing Pin Indent
  - Trigger Pull + other SPL Specific Measurements (Engagement, Over Travel, etc.)
  - Slam Test – 3 Guns
- Jack Function (All 30 Guns)
  - 200 rds./Gun using Rem. and Competitive Ammo Types

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- Accuracy (5 Guns/Caliber)
  - Three 5-Shot Groups/gun/ammo (2 Ammo Types)
- Thermal Testing (One Gun/Caliber)
  - Hot, Cold, Heat & Humidity
- Trigger Tests (One Gun/Caliber)
  - SAMMI Test
  - Remington Test
  - Dynamic Dust & Debris
- SAAMI Jar-Off, Rotation, Drop Tests (3 Guns/Caliber)
- Extended Function & Endurance
  - 500 rds/Gun (5 Guns/Caliber)
  - 1,000 rds/Gun (2 Guns/Caliber)
  - 2,000 rds/Gun (1 Gun/Caliber)

Ammo requirements to support this testing is about 18,000 rounds split evenly amongst the three calibers. The main reason for the majority of this testing is due to the integration of the SPL fire control.

Any questions or comments are always welcomed.

Scott Franz

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**Snedeker, Jim**

**From:** Franz, Scott  
**Sent:** Wednesday, June 29, 2005 10:24 AM  
**To:** Bristol II, Ronald H; Diaz, Danny; Lance, Kevin D.  
**Cc:** Millner, Tommy; Campbell, Don H.; Trull, John; Norton, Vince; Snedeker, Jim; Reesor, Phillip K.  
**Subject:** Re: Model 710 Short Action Test Plan  
**Importance:** High  
**Sensitivity:** Confidential

Ron,

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- Jack Function (All 30 Guns)
  - 200 rds./Gun using Rem. and Competitive Ammo Types
- Accuracy (5 Guns/Caliber)
  - Three 5-Shot Groups/gun/ammo (2 Ammo Types)
- Thermal Testing (One Gun/Caliber)
  - Hot, Cold, Heat & Humidity
- Trigger Tests (One Gun/Caliber)
  - SAMMI Test
  - Remington Test
  - Dynamic Dust & Debris
- SAAMI Jar-Off, Rotation, Drop Tests (3 Guns/Caliber)
- Extended Function & Endurance
  - 500 rds/Gun (5 Guns/Caliber)

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- o 1,000 rds/Gun (2 Guns/Caliber)
- o 2,000 rds/Gun (1 Gun/Caliber)

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Any questions or comments are always welcomed.

Scott Franz

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Clean & Inspect at 500 Rd Level  
 A4 TO A10  
 A14 TO A20  
 A24 TO A30

TLW 1800L  
 Extended  
 Function &  
 Endurance  
 Test -  
 501 - 1000 Rd.  
 A4 TO A6  
 A14 TO A16  
 A24 TO A26

TLW 1800K  
 Clean & Inspect at 1000 Rd Level  
 A4 TO A6  
 A14 TO A16  
 A24 TO A26

TLW 1800M  
 Endurance Test -  
 1001 to 4000  
 Rds.  
 Please Note:  
 Clean & Inspect Rifle Every 500 Rds.  
 A5, A15, & A25

TLW 1800K  
 Clean & Inspect at 4000  
 Rd. Level  
 A5, A15, & A25

Endurance

30 Guns (1 ea)	200	6000
15 Guns (5 ea)	500 rds/Gun	7500
6 Guns (2 ea)	1000 rds	6000
3 Guns (1 ea)	2000 rds	3000
		3000
		15000 rds
		18000

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**Snedeker, Jim**

**From:** Franz, Scott  
**Sent:** Monday, June 27, 2005 8:37 AM  
**To:** Snedeker, Jim  
**Subject:** Re: M/710 Short Action

Jim,

The following data was included in Mayfield's CAR for this product. Take a look, and then based on what is different in this new version put together what you think is a reasonable combined DAT/T&P test. Looking for a rough outline only then you and I can sit down to discuss. By tomorrow afternoon would be great. Then I'll have time to respond to Ron by Wednesday.

Thanks,  
 Scott

Ammunition:	.308	5,000 rds.	\$1,128.00
	.243	5,000 rds.	\$1,128.00
	7mm-08	5,000 rds.	\$1,128.00
			<b>\$3,384.00</b>

Barrel Process Development:	.308	100 pcs.	\$2,000.00
	.243	100 pcs.	\$2,000.00
	7mm-08	100 pcs.	\$2,000.00
			<b>\$6,000.00</b>

Finished Guns:	.308	50 units	\$7,000.00
	.243	50 units	\$7,000.00
	7mm-08	50 units	\$7,000.00
			<b>\$21,000.00</b>

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**Remington Arms Co. Inc.**  
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