

REMINGTON ARMS COMPANY INC.  
ILION, NY PLANT SITE

TECHNICAL DIVISION  
TEST & MEASUREMENTS LAB

## TEST REPORT

### Sunny-Hill SWS Trigger Guard Assembly Evaluation

Request # 20050021

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## INTRODUCTION:

Sunny-Hill Enterprises of Malone, WI, offers a line of trigger guard assemblies and other gun accessories for Remington and other gun maker's products. The company produces a trigger guard assembly that can be used on the Remington SWS. The Sunny-Hill trigger guard is all steel and can be purchased at a price attractive to Remington.

The Test Lab received a request to evaluate a sample of the Sunny-Hill trigger guard assemblies.

## SCOPE:

The Test Lab was provided with three samples of standard trigger guards used for the Model 700 SWS rifle as a control for the test. Three Model 514 trigger guard samples were provided from Sunny-Hill.

All trigger guards were subjected to ASTM scratch-and-lift testing, followed by 24 hour thermal exposure at -20 degrees and 150 degrees F. Next, solvent resistance testing was performed with the following gun cleaning and lubrication products:

- WD-40
- Rem Oil
- Remington's Brite Bore
- Birchwood Casey Bore Scrubber
- Hoppe's #9

Each trigger guard was assembled to an SWS, 7.62mm rifle and subjected to standard S.A.A.M.I. drop testing from the 4-foot height.

Lastly, the test trigger guards were turned over to the Metallurgical Lab for strength testing of the material and metallurgical analysis.

## RESULTS:

ASTM Scratch-and-Lift: All samples passed this test.

Thermal Exposure: All samples passed this test.

Solvent Resistance / Adhesion: All samples passed this test.

Drop Testing: None of the samples was damaged in drop testing. One of the control trigger guard assembly's floor plate opened. All of the Sunny-Hill floor plates remained latched during all drops.

Strength & Metallurgy: Results pending.

**CONCLUSIONS:**

The Sunny-Hill 514 Trigger Guard assembly has shown in this test-set to be a suitable substitute or replacement for Remington's standard SWS trigger guard assembly.

**DROP TEST SUMMARY:**

Model 700 SWS Trigger Guard Assembly Supplier Evaluation - Sunny Hill							
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Drop Order	Jar Off Test	Firearm Position							
	@ 12" Drop								
1	Barrel Verticle, Muzzle Up								
2	Barrel Verticle, Muzzle Down								
3	Barrel Horizontal, Bottom Down								
4	Barrel Horizontal, Bottom Up								
5	Barrel Horizontal, Left Side Up								
6	Barrel Horizontal, Right Side Up								
Drop Order	Drop Test	Firearm Position		NV-1	NV-2	NV-3	REM-1	REM-2	REM-3
	@ 48" Drop								
7	Barrel Verticle, Muzzle Up			Ok	Ok	Ok	Ok	Ok	Ok
8	Barrel Verticle, Muzzle Down			Ok	Ok	Ok	Ok	Ok	Ok
9	Barrel Horizontal, Bottom Down			Ok	Ok	Ok	Ok	Ok	1
10	Barrel Horizontal, Bottom Up			Ok	Ok	Ok	Ok	Ok	Ok
11	Barrel Horizontal, Left Side Up			Ok	Ok	Ok	Ok	Ok	Ok
12	Barrel Horizontal, Right Side Up			Ok	Ok	Ok	Ok	Ok	Ok
Drop Order	Rotational Test								
13	Left Side Up								
14	Right Side Up								

REM-3	1- Floor plate opened.
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<b>Note:</b>	A Model 700 SWS, .308 caliber rifle was used for this test. No primer shells were used because the test was only for evaluation of the trigger guard.
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