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Remington Arms Company Inc.
RESEARCH & DEVELOPMENT TECHNICAL CENTER
315 WEST RING ROAD
ELIZABETHTOWN, KY 42701

3.4.2 Debris Testing

As part of the evaluation of the design three types of abusive tests were included in the DAT, all involving the introduction of foreign material by various means to determine the potential effects of dirt, dust and debris on the function and reliability of the product. The following is a summary report of the testing performed during DAT Phase II related to the results of various debris tests that were performed on the Model 710. For sake of completeness the report is included below exactly as written at the time:

**M/710 DAT Phase II
Debris Test Summary**
(10/4/00 - Franz)
(Updated: 10/12/00 - Banner)
(Updated: 10/30/00 - Franz)

Introduction:

As part of the original M/710 Design Acceptance Test Plan a series of Abusive Tests were scheduled to be run. This document only summarizes those tests performed during Phase II DAT dealing with Debris. More specifically this document will outline the chronology of events dealing with these tests, what tests were run and when followed by a brief description of test results. You must refer to the specific test in question for more detailed information. As originally planned a single test gun (B-22, Serial. No. **71001278**) was identified that would be used for the three different Debris Tests. These tests are listed below.

<u>Test Title</u>	<u>Test Lab Work Request No.</u>
1. Dynamic Sand & Dust	TLW0010AL
2. Static Sand & Dust	TLW0010AM
3. Field Debris	TLW0010AN

The specific procedures for each of these three tests are documented in the M/710 Design Acceptance Test (DAT #1) Test Plan, Model 710, New Centerfire Rifle, and Revision #2 dated 3/31/00. Gun B-22 was one of ten guns received on Sept. 9th. This gun had Preliminary Measurements taken on the 9th followed by magnaflux of the bolt head on the 11th.

Jan 2001 Design Acceptance Test Remington M/710 Centerfire Rifle;
R & D Technical Center Project No. 241039; TLW 0100
file: E:\Test Reports\Firearms Tests\M710_DAT_REPORT_JAN01_Rev1.doc

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REV. 1-05/2006 9:59 AM

Subject to Protective Order - Williams v. Remington