

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

*Remington*  
Remington

*Defender*  
Defender

Distribution: C.B. Workman  
C.E. Ritchie  
J.W. Brooks  
L.J. Hagen

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RESEARCH TEST and MEASUREMENT REPORT - Report No. 52 0361

M/700 FIRE CONTROL EVALUATION AND LUBRICATION TEST  
RELIEVED SEAR SAFETY CAM, TRIGGER AND CONNECTOR

Prepared by: A. Long - F. Supry

Date Prepared: 5-25-82

Reviewed and Cleared By:

J.E. Hastings, / R.E. Nightingale,  
Foreman-Test Lab / Foreman-Measurement Lab

*James Long* 6-2-82  
Signature Date

C.E. Ritchie,  
Sr. Supervisor - Testing,  
Mech. & Mech. Analysis Lab

*C.E. Ritchie* 6/2/82  
Signature Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 82 0361  
 REPORT TITLE: M/700 Fire Control Evaluation and Lubrication Test  
 Relieved Sear Safety Cam, Trigger and Connector  
 MODEL(S): 700  
 GAUGE OR CALIBER: All  
 DATE: 5-25-82  
 WORK ORDER NO.: C-1803-000  
 PART NAME: Fire Control  
 DESIGNER/ENGINEER: L.J. Hagen

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED \_\_\_\_\_
3. FUNCTION TEST - NO. OF GUNS TESTED 15
4. ACCURACY TEST - NO. OF GUNS TESTED \_\_\_\_\_
5. MEASUREMENTS - TYPE: Trigger Pull - Sear Lift Engagement
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: \_\_\_\_\_
8. VISUAL EVALUATION - \_\_\_\_\_ OUT OF \_\_\_\_\_ GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: \_\_\_\_\_

NO. OF ROUNDS PER GUN: \_\_\_\_\_

TOTAL ROUNDS FIRED IN TEST: \_\_\_\_\_

AMMO TYPE: MAGS. \_\_\_\_\_; TARGET: \_\_\_\_\_

RIM FIRE \_\_\_\_\_ CENTER FIRE \_\_\_\_\_

REMINGTON ARMS COMPANY, INC.  
Firearms Research Division

May 25, 1982

TO: J.H. Hennings  
FROM: A.J. Long - F. L. Supry

REPORT TITLE: M/700 Fire Control Evaluation and Lubrication Test Relieved Sear Safety Cam, Trigger and Connector

ABSTRACT

On 2-5-82 a request was received from Pete Hagen, Research Current Products, to test 15 altered M/700 fire controls.

- A. 10 fire controls have the sear safety cam, trigger and connector relieved by .010".
- B. 5 fire controls have the sear safety cam, trigger and connector relieved by .005".

The test was to be a dry cycle evaluation with inspection at 5000 cycle intervals. WD-40, Du Pont and CRC lubricants were to be used for the test.

SCOPE OF TEST

To compare the 15 altered fire controls and to compare the 3 lubricants.

TEST RESULTS

All 15 fire controls were tested with no malfunctions occurring. No significant differences were noticed.

The three lubricants included in the test performed well. No significant differences were noticed.

REPORT TEXT

Data Sheet No. 1 (Appendix A) contains the following information: lubricant used, cycles completed, amount of relief, sear lift, sear engagement, and trigger pull measurements on each fire control.

A. Dry Cycle

Fire controls No. 1, No. 2 (with WD-40) and No. 6 and No. 7 (with Du Pont) were cycled to 25,000 cycles, all others were stopped at 10,000 cycles.

Six (6) fire controls were lubricated with WD-40, seven (7) with Du Pont and two (2) with CRC.

TEST PROCEDURE

1. The fire controls with .005 relief were marked 1 through 5.
2. The fire controls with .010 relief were marked 6 through 15.
3. The fire controls were degreased, using the solvent degreasing tanks located in the Heat Treat and then lubricated with the assigned lubricant.
4. The fire controls were assembled into Model 700 actions, then sear lift and engagement measurements, and trigger pull measurements were taken.
5. The actions were assembled into a dry cycle simulator and a predetermined number of cycles were run, with measurements taken every 5000 cycles.
6. Steps No. 3, 4 and 5 were repeated until all the fire controls were tested.

APPENDIX " A "

(Data Sheet No. 1)

INFORMATION		WIN LOSS		FC-3		FC-4		FC-5		FC-6		FC-7		FC-8		FC-9		FC-10		FC-11		FC-12		FC-13		FC-14		FC-15		FC-16		FC-17		FC-18		FC-19		FC-20		FC-21		FC-22		FC-23		FC-24		FC-25		FC-26		FC-27		FC-28		FC-29		FC-30		FC-31		FC-32		FC-33		FC-34		FC-35		FC-36		FC-37		FC-38		FC-39		FC-40		FC-41		FC-42		FC-43		FC-44		FC-45		FC-46		FC-47		FC-48		FC-49		FC-50		FC-51		FC-52		FC-53		FC-54		FC-55		FC-56		FC-57		FC-58		FC-59		FC-60		FC-61		FC-62		FC-63		FC-64		FC-65		FC-66		FC-67		FC-68		FC-69		FC-70		FC-71		FC-72		FC-73		FC-74		FC-75		FC-76		FC-77		FC-78		FC-79		FC-80		FC-81		FC-82		FC-83		FC-84		FC-85		FC-86		FC-87		FC-88		FC-89		FC-90		FC-91		FC-92		FC-93		FC-94		FC-95		FC-96		FC-97		FC-98		FC-99		FC-100		FC-101		FC-102		FC-103		FC-104		FC-105		FC-106		FC-107		FC-108		FC-109		FC-110		FC-111		FC-112		FC-113		FC-114		FC-115		FC-116		FC-117		FC-118		FC-119		FC-120		FC-121		FC-122		FC-123		FC-124		FC-125		FC-126		FC-127		FC-128		FC-129		FC-130		FC-131		FC-132		FC-133		FC-134		FC-135		FC-136		FC-137		FC-138		FC-139		FC-140		FC-141		FC-142		FC-143		FC-144		FC-145		FC-146		FC-147		FC-148		FC-149		FC-150		FC-151		FC-152		FC-153		FC-154		FC-155		FC-156		FC-157		FC-158		FC-159		FC-160		FC-161		FC-162		FC-163		FC-164		FC-165		FC-166		FC-167		FC-168		FC-169		FC-170		FC-171		FC-172		FC-173		FC-174		FC-175		FC-176		FC-177		FC-178		FC-179		FC-180		FC-181		FC-182		FC-183		FC-184		FC-185		FC-186		FC-187		FC-188		FC-189		FC-190		FC-191		FC-192		FC-193		FC-194		FC-195		FC-196		FC-197		FC-198		FC-199		FC-200		FC-201		FC-202		FC-203		FC-204		FC-205		FC-206		FC-207		FC-208		FC-209		FC-210		FC-211		FC-212		FC-213		FC-214		FC-215		FC-216		FC-217		FC-218		FC-219		FC-220		FC-221		FC-222		FC-223		FC-224		FC-225		FC-226		FC-227		FC-228		FC-229		FC-230		FC-231		FC-232		FC-233		FC-234		FC-235		FC-236		FC-237		FC-238		FC-239		FC-240		FC-241		FC-242		FC-243		FC-244		FC-245		FC-246		FC-247		FC-248		FC-249		FC-250		FC-251		FC-252		FC-253		FC-254		FC-255		FC-256		FC-257		FC-258		FC-259		FC-260		FC-261		FC-262		FC-263		FC-264		FC-265		FC-266		FC-267		FC-268		FC-269		FC-270		FC-271		FC-272		FC-273		FC-274		FC-275		FC-276		FC-277		FC-278		FC-279		FC-280		FC-281		FC-282		FC-283		FC-284		FC-285		FC-286		FC-287		FC-288		FC-289		FC-290		FC-291		FC-292		FC-293		FC-294		FC-295		FC-296		FC-297		FC-298		FC-299		FC-300		FC-301		FC-302		FC-303		FC-304		FC-305		FC-306		FC-307		FC-308		FC-309		FC-310		FC-311		FC-312		FC-313		FC-314		FC-315		FC-316		FC-317		FC-318		FC-319		FC-320		FC-321		FC-322		FC-323		FC-324		FC-325		FC-326		FC-327		FC-328		FC-329		FC-330		FC-331		FC-332		FC-333		FC-334		FC-335		FC-336		FC-337		FC-338		FC-339		FC-340		FC-341		FC-342		FC-343		FC-344		FC-345		FC-346		FC-347		FC-348		FC-349		FC-350		FC-351		FC-352		FC-353		FC-354		FC-355		FC-356		FC-357		FC-358		FC-359		FC-360		FC-361		FC-362		FC-363		FC-364		FC-365		FC-366		FC-367		FC-368		FC-369		FC-370		FC-371		FC-372		FC-373		FC-374		FC-375		FC-376		FC-377		FC-378		FC-379		FC-380		FC-381		FC-382		FC-383		FC-384		FC-385		FC-386		FC-387		FC-388		FC-389		FC-390		FC-391		FC-392		FC-393		FC-394		FC-395		FC-396		FC-397		FC-398		FC-399		FC-400		FC-401		FC-402		FC-403		FC-404		FC-405		FC-406		FC-407		FC-408		FC-409		FC-410		FC-411		FC-412		FC-413		FC-414		FC-415		FC-416		FC-417		FC-418		FC-419		FC-420		FC-421		FC-422		FC-423		FC-424		FC-425		FC-426		FC-427		FC-428		FC-429		FC-430		FC-431		FC-432		FC-433		FC-434		FC-435		FC-436		FC-437		FC-438		FC-439		FC-440		FC-441		FC-442		FC-443		FC-444		FC-445		FC-446		FC-447		FC-448		FC-449		FC-450		FC-451		FC-452		FC-453		FC-454		FC-455		FC-456		FC-457		FC-458		FC-459		FC-460		FC-461		FC-462		FC-463		FC-464		FC-465		FC-466		FC-467		FC-468		FC-469		FC-470		FC-471		FC-472		FC-473		FC-474		FC-475		FC-476		FC-477		FC-478		FC-479		FC-480		FC-481		FC-482		FC-483		FC-484		FC-485		FC-486		FC-487		FC-488		FC-489		FC-490		FC-491		FC-492		FC-493		FC-494		FC-495		FC-496		FC-497		FC-498		FC-499		FC-500		FC-501		FC-502		FC-503		FC-504		FC-505		FC-506		FC-507		FC-508		FC-509		FC-510		FC-511		FC-512		FC-513		FC-514		FC-515		FC-516		FC-517		FC-518		FC-519		FC-520		FC-521		FC-522		FC-523		FC-524		FC-525		FC-526		FC-527		FC-528		FC-529		FC-530		FC-531		FC-532		FC-533		FC-534		FC-535		FC-536		FC-537		FC-538		FC-539		FC-540		FC-541		FC-542		FC-543		FC-544		FC-545		FC-546		FC-547		FC-548		FC-549		FC-550		FC-551		FC-552		FC-553		FC-554		FC-555		FC-556		FC-557		FC-558		FC-559		FC-560		FC-561		FC-562		FC-563		FC-564		FC-565		FC-566		FC-567		FC-568		FC-569		FC-570		FC-571		FC-572		FC-573		FC-574		FC-575		FC-576		FC-577		FC-578		FC-579		FC-580		FC-581		FC-582		FC-583		FC-584		FC-585		FC-586		FC-587		FC-588		FC-589		FC-590		FC-591		FC-592		FC-593		FC-594		FC-595		FC-596		FC-597		FC-598		FC-599		FC-600		FC-601		FC-602		FC-603		FC-604		FC-605		FC-606		FC-607		FC-608		FC-609		FC-610		FC-611		FC-612		FC-613		FC-614		FC-615		FC-616		FC-617		FC-618		FC-619		FC-620		FC-621		FC-622		FC-623		FC-624		FC-625		FC-626		FC-627		FC-628		FC-629		FC-630		FC-631		FC-632		FC-633		FC-634		FC-635		FC-636		FC-637		FC-638		FC-639		FC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