

#0013

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

Remington

DEFENSE

Distribution:

R. M. J. J.

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

"TEST RESULTS ONLY"

RESEARCH TEST and MEASUREMENT REPORT - Report No. 822531

M/788 MUZZLE FORWARD, PENDULUM DROP TEST EVALUATION

Prepared by: R. HOWE

Date Prepared: _____

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Foreman-Test Lab / Foreman-Measurement Lab

Signature

Date

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Signature

Date

#0014

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER:

REPORT TITLE: *M/788 MUZZLE FORWARD, PENDULUM DROP
TEST EVALUATION*

MODEL(S): *788*

GAUGE OR CALIBER: *.223*

DATE: *FEB. 3, 1983*

WORK ORDER NO.: *C-1806-000*

PART NAME: *SAFETY DETENT + CAM*

DESIGNER/ENGINEER: *R. S. MURPHY (S. FANELLI)*

TEST TYPE: *MUZZLE FORWARD PENDULUM DROP TEST.*

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED _____
4. ACCURACY TEST - NO. OF GUNS TESTED _____
5. MEASUREMENTS - TYPE: *STATIC* _____
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 _____

DATE: FEB. 3, 1983

#0015 REPORT #822531

TO: R.E. NIGHTINGALE
FROM: R. HOWE

PAGE 1

TEST TITLE: "TEST RESULTS ONLY"
M/788 MUZZLE FORWARD, PENDULUM DROP TEST EVALUATION

REASON FOR TEST:

TO CONFIRM THAT FIRING PIN WILL NOT FALL
"JAR OFF" WHEN GUN IS DROPPED DIRECTLY ON
MUZZLE FROM DISTANCES OF UP TO SIX FEET.

TEST PROCEDURE:

ON 9-10-82 R.S. MURPHY, CURRENT FIREARMS DESIGN,
REQUESTED THAT A MUZZLE FORWARD, PENDULUM DROP
TEST BE CONDUCTED ON THE REMINGTON MODEL 788
RIFLE EQUIPPED WITH THE REMINGTON CURRENT
PRODUCTION (S. FANELLI) DESIGN SAFETY DETENT & CAM
SYSTEM FIRE CONTROLS.

THIS TEST WAS CONDUCTED IN THE R+D LAB. USING
TWO OF THE ABOVE FIRE CONTROLS. BOTH TEST
VEHICLES WERE MOUNTED IN THE SAME RIFLE, M/788,
.223 CAL. REMINGTON SER# A 6145302 AND DROPPED
AGAINST BOTH A 1" NEOPRENE AND A 3 1/2" HARD WOOD
PAD. AT INCREASING LEVELS OF UP TO SIX FEET.
EACH DROP WAS DONE WITH THE SAFE IN THE "ON" POSITION.
AFTER EACH DROP THE GUN WAS DRY FIRED TO MAKE SURE
THE FIRING PIN HAD NOT FALLEN.

NOTE: THE COPPER CRUSHER METHOD OF TESTING WAS
NOT USED BECAUSE FIRING PIN IS NOT THE INERTIA
TYPE.

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TEST RESULTS:

PAGE 2

AT NO TIME DURING THE ENTIRE TEST, AT ANY LEVEL DROP, AGAINST EITHER TEST SURFACE DID THE FIRING PIN FALL UNTIL THE SAFE WAS IN THE "OFF" POSITION AND THE TRIGGER WAS PULLED.

A. FIRST FIRE CONTROL (S. FANELLI DESIGN SAFETY DETENT + CAM)

1. DROPPED AGAINST A 1" NEOPRENE PAD, MUZZLE FORWARD

2 FOOT DROP - FIRING PIN DID NOT FALL

4 " " - " " " " "

6 " " - " " " " "

2. DROPPED AGAINST A 3½" HARDWOOD PAD

2 FOOT DROP - FIRING PIN DID NOT FALL

4 " " - " " " " "

6 " " - " " " " "

B. SECOND FIRE CONTROL (S. FANELLI DESIGN SAFETY DETENT + CAM)

1. DROPPED AGAINST A 1" NEOPRENE PAD, MUZZLE FORWARD

2 FOOT DROP - FIRING PIN DID NOT FALL

4 " " - " " " " "

6 " " - " " " " "

2. DROPPED AGAINST A 3½" HARDWOOD PAD.

1 FOOT DROP - FIRING PIN DID NOT FALL

4 " " - " " " " "

6 " " - " " " " "

NOTE:

DURING THIS TEST PROCEDURE IT WAS NOTED THAT WHILE THE FIRING PIN DID NOT "JAR OFF" THE SAFETY LEVER DID MOVE FROM THE "ON" TO THE "OFF" POSITION WHEN DROPPED AGAINST THE 3½" HARDWOOD PAD AS FOLLOWS

TEST RESULTS (NOTE CONT.)

PAGE 3

A. FIRST FIRE CONTROL

1. 2 1/2 FOOT DROP - SAFE MOVED FROM "ON" TO "OFF" POSITION
2. SAFE "ON"-"OFF" POUND FORCES.

AVERAGE OF THREE MEASUREMENTS, SAFE "ON" - 9.00 LBS.
SAFE "OFF" 4.00 LBS.

B. SECOND FIRE CONTROL

1. 3 FOOT DROP - SAFE MOVED FROM "ON" TO "OFF" POSITION
2. SAFE "ON"-"OFF" POUND FORCES.

AVERAGE OF THREE MEASUREMENTS, SAFE "ON" - 9.33 LBS
SAFE "OFF" - 4.25 LBS

NO PRESENT REMINGTON STANDARDS FOR M/788
SAFE "ON"-"OFF" POUND FORCES.