



TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 823051  
REPORT TITLE: M/700 Vs. M/Seven LWT. Safety Button Comparison Strength Test  
MODEL(S): M/700, M/Seven LWT.  
GAUGE OR CALIBER:  
DATE: 11-19-82  
WORK ORDER NO.: C-1856  
PART NAME:  
DESIGNER/ENGINEER: D. Bullis

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF <sup>Safety's</sup> ~~GUNS~~ TESTED 20
3. FUNCTION TEST - NO. OF GUNS TESTED \_\_\_\_\_
4. ACCURACY TEST - NO. OF GUNS TESTED \_\_\_\_\_
5. MEASUREMENTS - TYPE: \_\_\_\_\_
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 \_\_\_\_\_

November 19, 1982

TO: J. H. Hennings

FROM: J. Baggetta

REPORT TITLE: M/700 VS. M/SEVEN LWT. SAFETY BUTTON COMPARISON STRENGTH TEST

ABSTRACT

A work request was received from D. E. Bullis, Current Products Design, to strength test 10 M/700 regular safety (old button HD 2020) and 10 M/Seven LWT. (New Material Safety, New Button HD 1000). The test was run to determine whether the new M/Seven LWT. is as strong as the old style button.

SCOPE OF TEST

The purpose of this test is to determine if the new material used in the M/Seven LWT. Safety Button causes any significant changes to the force required to separate the Safety Button from the arm. The current production M/700 Safety was used as a comparison.

TEST RESULTS

All of the M/700 and M/Seven LWT. tested exceeded 50 lbs. of pressure with no separation of the safety button from the arm.

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REPORT TEXT

Ten M/700 current production safety assemblies with the old button HD 2020 and 10 M/Seven LWT. with the new material safety button HD 1000 exceeded 50 lbs. of pressure with no separation of the safety button from the safety. Each safety button was tested by pushing with a downward force of up to 50 lbs. (See Data Sheet No. 1, Appendix "A".)

TEST PROCEDURE

- o Test was run in dry cycle room using bolt lift operating machine.
- o A 80 lb. scale was attached to the bolt lift machine. (See Photo Data Sheet No. 2, 3 – Appendix "A".)
- o Each safety button was tested one time by pushing with a downward force.

" APPENDIX " A "

Data Sheets

M/700 Safety Button

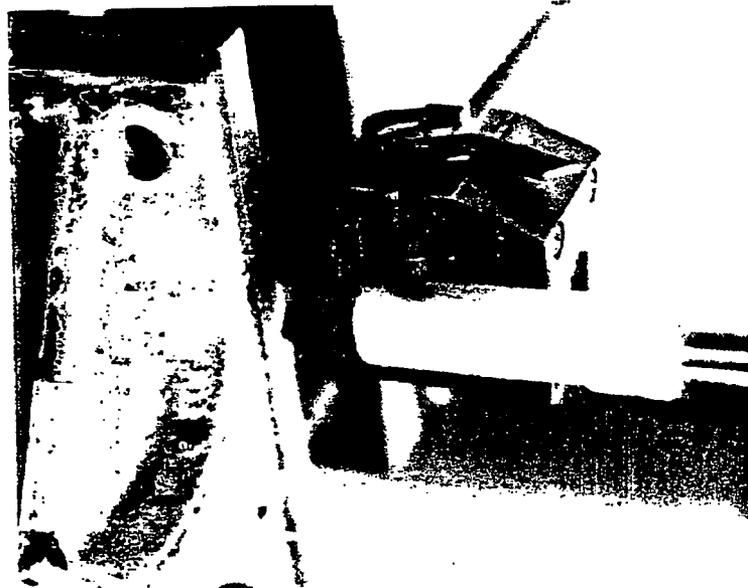
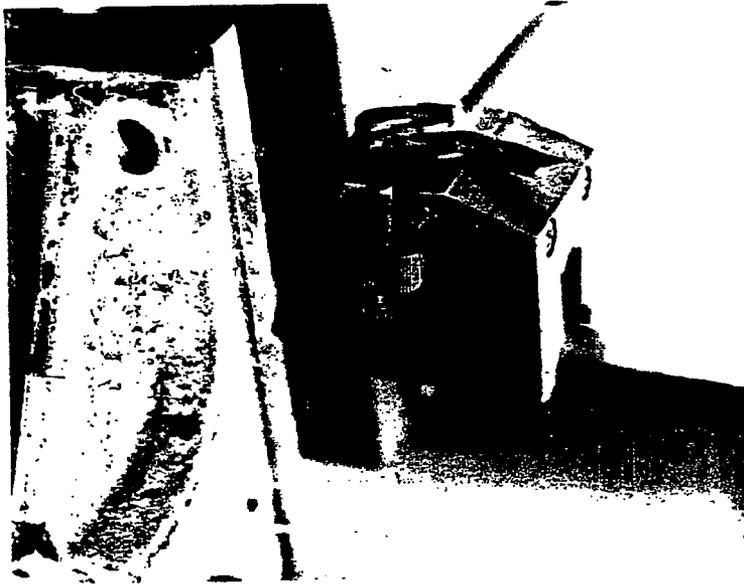
(Old Style HD 2020)

1. 50 lbs.
2. 50 lbs.
3. 50 lbs.
4. 50 lbs.
5. 50 lbs.
6. 50 lbs.
7. 50 lbs.
8. 50 lbs.
9. 50 lbs.
10. 50 lbs.

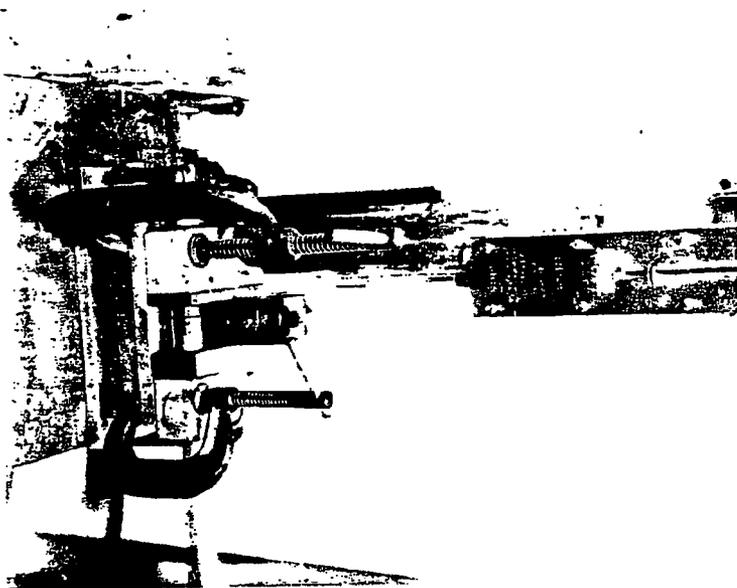
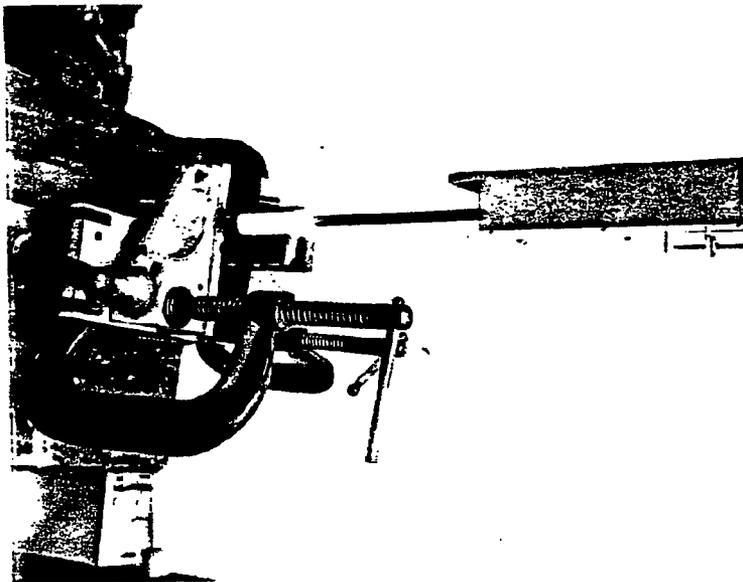
M/Seven LWT. Safety Button

(New Material HD 1000)

1. 50 lbs.
2. 50 lbs.
3. 50 lbs.
4. 50 lbs.
5. 50 lbs.
6. 50 lbs.
7. 50 lbs.
8. 50 lbs.
9. 50 lbs.
10. 50 lbs.



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