

Report No. 651121

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

☒ Developmental ☐ Design Acceptance ☐ Pre-Pilot ☐ Pilot ☐ Production Acceptance	<u>AREA OF TESTING</u> ☐ Safety Related ☐ Competitive Evaluation ☒ New Design ☐ Design Change ☐ Plant Assistance ☐ Litigation ☐ Warehouse Audit ☐ Cost Reduction ☐ Stake _____ ☐ Other _____	
<u>FIREARM STATS</u> MODEL: <u>700</u> CAL or GAGE: _____ BARREL TYPE: _____ PROOFED: YES ☐ NO ☐	<u>REPORT REQ'D:</u> FORMAL ☐ TEST RESULTS ONLY ☒	DATE REQUESTED: <u>4-22-85</u> DATE NEEDED BY: <u>ASAP</u> REQUESTED BY: <u>L. Murshu</u> WORK ORDER NO: <u>1-5004-</u>
<u>TEST TYPE</u> ☐ Strength Test ☐ Function Test ☐ Accuracy Test ☐ Ammunition Test ☐ Environmental Test ☐ Customer Complaint ☐ Dry Cycle Test ☐ Measurements ☐ Endurance Test ☐ Photo/Video ☐ Other <u>Drop Test</u>		

EXPLAIN IN DETAIL THE REASON FOR THIS TEST:

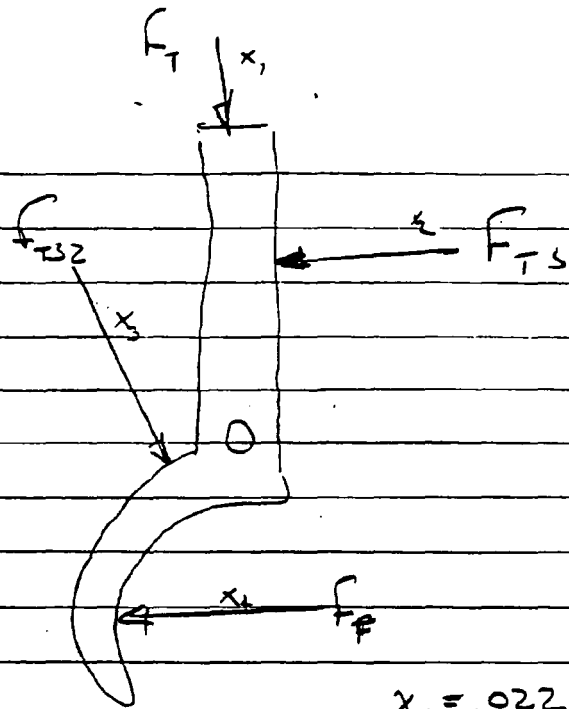
What accelerations does a M/700 receiver see on impact from 1, 2, 3 and 4 foot drops when dropped on a 90 diameter mat?

-GUNS REQUIRED:

NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are to be filled out in detail. No Exceptions.

DATE COMPLETED: 4/20/85
 TEST COMPLETED BY: L. Corant
 REPORT DATE: _____

Trigger Analysis
Static



$$x_1 = .022$$

$$x_4 = .863$$

$$x_2 = .720$$

$$x_3 = .395$$

$$F_T = 106.129$$

$$F_{TS} = 36$$

$$F_F \cdot x_4 = F_T \cdot x_1 + F_{TS} \cdot x_2 + F_{T32} \cdot x_3$$

$$6(.863) = 106(.022) + 36(.720) + F_{T32}(.395)$$

$$F_{T32} = 5.96 \text{ lb}$$

Review Design, Finalize

4-26

All parts in Model Shop

5-13

Order Competitive guns

5-3

6 1/2 wks

6-10 prototypes ready for test

6-17

4

Testing Complete ^{Drop test}

7-29

Competitive Testing to follow

1

Revisions Complete

8-5

12 wks

30 gun sample ready for test

10-28

7 1/2 wks

Transmittal

12-20

Force analysis

5-13

Summary report on E.F.C. 7-1

- progress

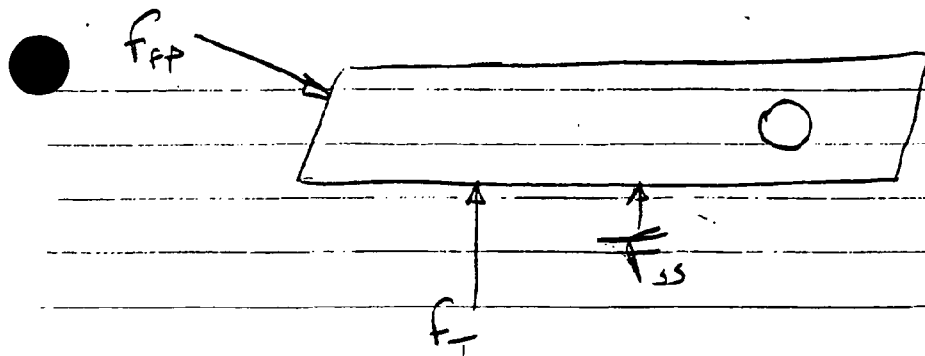
- problems

- reasons for decision

- tech review

Next meeting Fri. May 10.

Sear Analysis Static



$$F_{PP} \cdot X_1 = F_T \cdot X_2 + F_{SS} \cdot X_3$$

$$22(.532) = F_T(.860) + (6.4)(.362)$$

$$F_T = 10.91 - 10.58$$

$$X_1 = .532$$

$$X_2 = .860$$

$$X_3 = .362$$

$$F_{PP} = 22.16$$

$$F_T = ?$$

$$F_{SS} = 6.4 - 7.2$$