Report No. 651121

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

		AREA OF TESTING	
☒ Developmental	☐ Safety Related	☐ Litigation	
☐ Design Acceptance	☐ Comparative Evaluation	☐ Warehouse Audit	
☐ Pre-Pilot	☒ New Design	☐ Cost Reduction	
☐ Pilot	☐ Design Change	☐ Scale	
☐ Production Acceptance	☐ Plant Assistance	☐ Other	

FIREARM STATE		REPORT REQ'D.	
MODEL: <u>700</u>	☐ FORMAL	DATE REQUESTED: <u>4-22-85</u>	DATE NEEDED BY: <u>ASAP</u> REQUESTED BY: <u>A. H. H. H.</u> WORK ORDER NO: <u>1-5004-</u>
CAL. or GAGE: _____	☐ TEST RESULTS ONLY		
BARREL TYPE: _____			
PROOFED: YES ☐ NO ☐			

TEST TYPE			
☐ Strength Test	☐ Ammunition Test	☐ Dry Cycle Test	☐ Photo/Micro
☐ Function Test	☐ Environmental Test	☐ Measurements	☐ Other <u>Drop Test</u>
☐ Accuracy Test	☐ Customer Complaint	☐ Endurance Test	

EXPLAIN IN DETAIL THE REASON FOR THIS TEST:

What accelerations does a H/700 receiver see on impact from 7, 2, 3 and 1 lb drops when dropped on a 90 diameter nut?

GUNS REQUIRED:

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

DATE COMPLETED: 4/22/85TEST COMPLETED BY: P. G. H.

REPORT DATE: _____

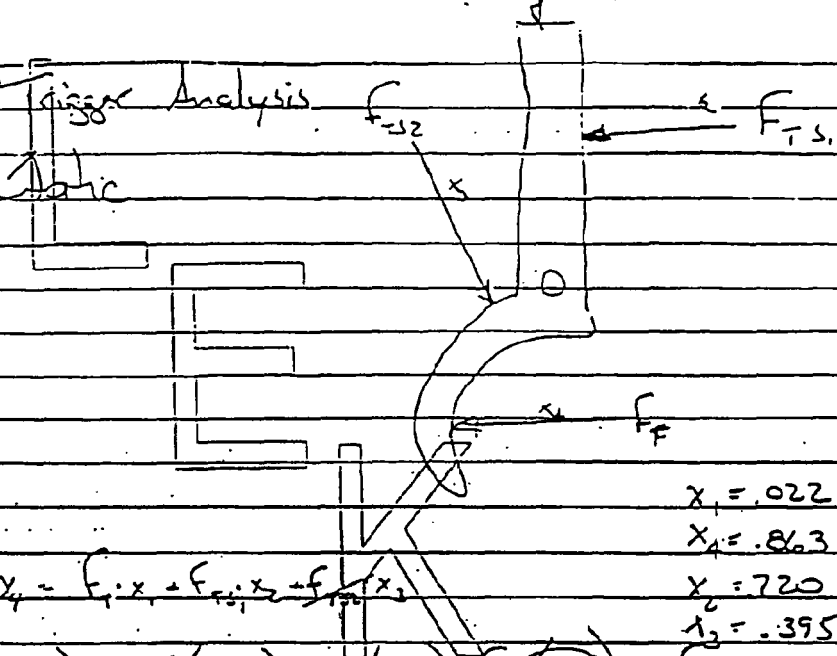
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Tsachalis v. Remington Arms

A

Free Body Analysis

Baric



$$F \cdot y = F_1 \cdot x_1 + F_{T2} \cdot x_2 + F_{T3} \cdot x_3$$

$$6(.863) = 10(.022) + 36(.720) + F_3(.395)$$

$$F_{T2} = 5.96 \text{ lb}$$

$$x_1 = .022$$

$$x_4 = .863$$

$$x_6 = .720$$

$$x_3 = .395$$

$$F_1 = 106.09$$

$$F_{T3} = 36$$

S

I

C

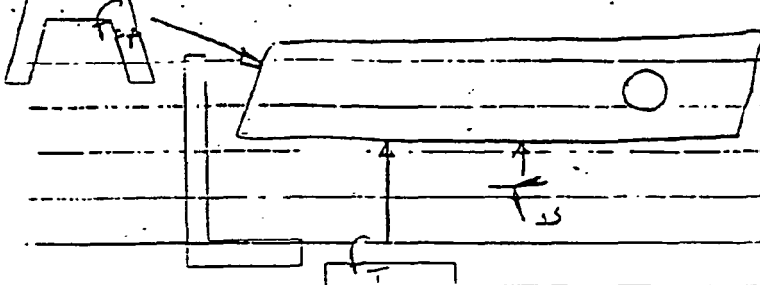
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Al-Kin v. Remington Arms

11/11/17

Search Analysis Static



$$f(x_1) = f(x_2) + f(x_3)$$

X = 532

X. 860

$x_3 = .362$

F₄ = 22 lb

_____?

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

$$22(.532) = 11.704 + (64)(.368)$$

$$E = 10.91 - 10.518$$

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~~At-Risk~~ v. Remington Arms

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