

**TEST AND MEASUREMENT LAB****TEST REPORT**

REQUESTER:M.KEENEY

WRITTEN BY:C. STEPHENS

DATE:7 JUNE 93

WORK ORDER:481153

REPORT NO.:931241

TEST TYPE:DRY CYCLE

FIREARM STAT'S: MODEL:700

CAL OR GAGE: N/A

BARREL TYPE:STD.

PROOFED:YES

REASON FOR TEST: TO DETERMNE THE EFFECT OF REDUCING THE WEIGHT OF THE M/700  
FIRING ON THE ENDURANCE LIFE OF THE ASSEMBLY.

EQUIPMENT REQUIRED: DRY CYCLE MACHINE, M/700 RIFLE, FIRING PINS.

TEST PROCEDURE: A M/700 RIFLE WAS PLACED IN THE DRY CYCLE MACHINE AND SIX  
EXPERIMENTAL FIRING WERE PLACED INTO THE BOLT ASSEMBLY AND DRY CYCLED FOR  
30,000 CYCLES OR FAILURE.

TEST RESULTS: THE TEST RESULTS ARE LISTED BELOW.

| <u>BOLT NUMBER</u> | <u>CYCLES</u> |
|--------------------|---------------|
| 4                  | 5245          |
| 5                  | 16390         |
| 6                  | 2635          |
| 7                  | 26554         |
| 8                  | 8050          |
| 9                  | 29320         |

30K each

Test Request No. 931241

## RESEARCH TEST &amp; MEASUREMENT LAB WORK REQUEST

## Purpose for Testing:

|  |   |  |
|--|---|--|
| <input type="checkbox"/> Developmental     | <input checked="" type="checkbox"/> Design Change Eval. | <input type="checkbox"/> Ammunition Evaluation |
| <input type="checkbox"/> Design Acceptance | <input type="checkbox"/> Plant Assistance               | <input type="checkbox"/> Cost Reduction        |
| <input type="checkbox"/> Trial & Pilot     | <input type="checkbox"/> Marketing Request              | <input type="checkbox"/> Litigation Support    |
| <input type="checkbox"/> Safety Issue      | <input type="checkbox"/> Quality Evaluation             | <input type="checkbox"/> Other                 |

## Types of Testing Requested:

|  |   |   |
|--|---|---|
| <input type="checkbox"/> Intentional Abuse       | <input type="checkbox"/> Endurance Testing            | <input type="checkbox"/> Photography/Video      |
| <input type="checkbox"/> Function Test           | <input checked="" type="checkbox"/> Dry Cycle Testing | <input type="checkbox"/> High Speed Photography |
| <input type="checkbox"/> Accuracy Test           | <input type="checkbox"/> Ammunition Testing           | <input type="checkbox"/> Other (specify)        |
| <input checked="" type="checkbox"/> Measurements | <input type="checkbox"/> Environmental Testing        |   |

## Type Report Desired:

☐ Formal Written  
☒ Informal Written  
☐ Results only

Date Requested: 3 / 5 / 93  
(dd / mm / YY)Date Needed: 28 / 5 / 93  
(dd / mm / YY)

Work Order No. to be  
 Charged for This  
 Testing: 481153

Name of Requester: Mike Kearney  
 Extension where you can be reached: 3267  
 Pager Number: \_\_\_\_\_

## Firearm Descriptions:

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Model(s): _____       | Model(s): _____       | Model(s): _____       |
| Gage/Cal: _____       | Gage/Cal: _____       | Gage/Cal: _____       |
| Barrel Type: _____    | Barrel Type: _____    | Barrel Type: _____    |
| RAMAC #: _____        | RAMAC #: _____        | RAMAC #: _____        |
| No. of samples: _____ | No. of samples: _____ | No. of samples: _____ |

Explain in DETAIL the reason(s) for conducting this test.

- what are we trying to learn?
- what will be the criteria used to judge the results?
- use back of sheet if more room is needed.

DETERMINING THE EFFECT OF A REDUCTION IN WEIGHT OF THE M/300 FIRING  
 PIN ON LOCK TIME AND ENDURANCE LIFE OF THE ASSY.

TEST PIECES CONSIST OF 3 SAMPLES PER EACH GROUP, GROUPS ARE AS  
 FOLLOWS:

- ① STD M/300 FIRING PIN. 1-3
- ② STD M/300 FIRING PIN TIP W/ ALUMINUM SHANK 4-6.
- ③ TITANIUM FIRING PIN TIP W/ ALUMINUM SHANK. 7-9.

86889854

Dry Cycle 30,000 cycles each

TL-FORM # -001

Note: No firearms or parts will be tested  
 in the Lab unless accompanied by a Work  
 Request that is completely filled out  
 along with the guns or parts that are to  
 be tested. NO EXCEPTIONS

Date completed: \_\_\_\_/\_\_\_\_/\_\_\_\_

Completed By: \_\_\_\_\_

Report Completed: \_\_\_\_/\_\_\_\_/\_\_\_\_