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Ilion, New York

August 7, 1980

TO: J.R. SNEDEKER

FROM: J.H. HENNINGS/A.J. LONG *JH*SUBJECT: M/700 SAFETY DETENT SPRING - NEW DESIGN WITH TWO DETENTS

Date Started: April 2, 1980
Date Completed: May 16, 1980
Work Order: C-1803

INTRODUCTION:

Received from Design four (4) M/700 safety detent springs for evaluation. Two (2) springs have been altered to provide dual detents for retention of the safety snap washer. The remaining two detents are current production parts with one detent to be used as control.

TEST OBJECTIVE:

To determine if the new design dual detent spring will retain the safety snap washer from rotating during use.

TEST CONCLUSIONS:

- (A) Both samples of the dual detent spring completed safe on/off dry cycle testing with no rotation of the safety snap ring observed. Samples were tested 6,400 and 10,000 cycles respectively.
- (B) Both current production single detent springs tested allowed the safety snap ring to rotate 50% and 75% thus reducing the required tension on the detent ball end of the spring.

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From: J.E. Hennings/A.J. Long
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TEST PROCEDURE:

1. All samples were tested in the M/700 safe on/off dry cycle machine with a cycle rate of one every two (2) seconds.
2. Inspection cycle was every 500 cycles.

PARTS TESTED:

(A) Current Production:

Sample #1 - 5,000 cycles - start of rotation noticed at 1,500 cycles.
Sample #2 - 5,000 cycles - start of rotation noticed at 3,000 cycles.

(B) New Design Dual Detent:

Sample #1 - 6,400 cycles - no rotation noticed.
Sample #2 - 10,000 cycles - no rotation noticed.

FUTURE WORK:

Additional samples to be tested as supplied by vendor.

JHH/AJL:sse
Attach