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File.

SUBJECT

M/700 SAFETY LEVER WITH VIEW HOLE

M/700 SEARS - NEW CHROME PLATE PROCESS

DATE STARTED - 9-29-80

DATE FINISHED - 10-7-80

WORK ORDER - C-1103

INTRODUCTION

RECEIVED FROM DESIGN LIVE(S) M/700 FIRE CONTROLS FOR
RY CYCLE. THESE SAMPLES HAVE A NEW VIEW HOLE IN THE
SAFETY LEVER AND ALSO CHROME PLATED SEARS

TEST OBJECTIVE

TO EVALUATE IF THE VIEW HOLE ON THE SAFETY
LEVER DOES WEAKEN THE PART. TEST TO INCLUDE THE
EVALUATION OF THE NEW CHROME PLATING PROCESS ON
THE SEARS FOR CRACKING OR PEELING.

TEST OBSERVATION

ALL SAMPLES ^{were tested} ~~test~~ A TOTAL OF 20,000 CYCLES EACH
WITHOUT ANY BREAKAGES OR WEARING OF CHROME. OCCUR

TEST PROCEDURE

ALL SAMPLES WERE RUN IN A M/700 SAFE
ON/OFF DRY CYCLE MACHINE WITH A CYCLE RATE
OF ONE EVERY SECOND

TEST PROCEDURE (CONT'D)

INSPECTION CYCLE AND MEASUREMENTS WERE
TAKEN EVERY 2500 CYCLES

SAMPLE	SENR SAFE ON	LIFT FWD NULL	SAFE ON	SAFE OFF	TRIGGER PULL	
1- 0 CYCLES	.011	.0055	7.15	8.40	6.45	
20000 "	.0105	.006	5.05	5.05	6.10	
2- 0 CYCLES	.008	.0035	6.70	6.00	5.90	
20000 "	.0075	.002	4.15	3.75	6.35	
3- 0 CYCLES	.009	.0045	8.90	6.20	5.90	
20000 "	.0095	.0045	5.55	6.35	6.20	
4- 0 CYCLES	.008	.003	7.10	8.55	5.35	
20000 "	.0075	.003	3.60	5.70	5.05	
5- 0 CYCLES	.008	.0035	5.55	6.30	6.05	
20000 "	.008	.003	5.50	4.75	5.75	

FUTURE WORK.

~~NO SAMPLES ARE FORESEEN IN THE
FUTURE.~~

Additional testing should be conducted
on Pilot lot if accepted.