

**TEST & MEASUREMENT LAB REPORT**

**REPORT NUMBER:** 821321 Supplement  
**REPORT TITLE:** M/Seven & M/700 .222 Caliber Follower - Spring Evaluation  
Supplement to Report No. 821321  
**MODEL(S):** M/Seven, M/700 ADL, M/700 BDL  
**GAUGE OR CALIBER:** .222 Caliber  
**DATE:** 4-19-83  
**WORK ORDER NO.:** G-0196-000  
**PART NAME:** Magazine Spring and No-Bind Follower  
**DESIGNER/ENGINEER:** Requested by C. E. Ritchie

**TEST TYPE:**

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED \_\_\_\_\_
3. FUNCTION TEST - NO. OF GUNS TESTED 12
4. ACCURACY TEST - NO. OF GUNS TESTED \_\_\_\_\_
5. MEASUREMENTS - TYPE: \_\_\_\_\_
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: \_\_\_\_\_
8. VISUAL EVALUATION -        OUT OF        GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: \_\_\_\_\_  
NO. OF ROUNDS PER GUN: 18 Fired  
TOTAL ROUNDS FIRED IN TEST: 2592  
AMMO TYPE: MAGS. \_\_\_\_\_; TARGET: \_\_\_\_\_  
RIM FIRE \_\_\_\_\_ CENTER FIRE X

April 15, 1983

TO: R. E. NIGHTINGALE  
FROM: F. L. SUPRY  
REPORT TITLE: M/SEVEN & M/700 .222 CALIBER FOLLOWER - SPRING EVALUATION  
Supplement to Report No. 821321

**ABSTRACT**

The results generated during the first phase (1/3 of the overall test) of the M/Seven and M/700 .222 Caliber Follower - Spring Evaluation were reviewed by C. Evan Ritchie (Sr. Supervisor - Testing, Measurement and Mechanical Analysis Lab), Dr. James Lucas and Steve Larson (Consultants - Applied Statistics Group, E. I. DuPont deNemours & Co., Inc.). As a result of the review, it was decided to evaluate six (6) red and six (6) yellow magazine springs, all twelve (12) assembled with Design No. 6 No-Bind Followers. Each spring is to be tested in two (2) of the best performing rifles and two (2) of the worst performing rifles in the M/Seven, M/700 ADL, and M/700 BDL .222 caliber rifles, selected from the results of the first phase of the .222 caliber follower - spring evaluation.

**SCOPE OF TEST**

To compare the two (2) best performing spring-follower combinations in the best and worst performing rifles; to determine the most compatible combination in each model, and the most compatible combination overall.

**TEST RESULTS**

The yellow spring (ref. Dwg. No. 91133 - Current Magazine Spring) had fewer malfunctions overall than the red spring (Ref. Dwg. No. 91133 - Current Magazine Spring - Revision 2), and fewer total malfunctions in the Model Seven, M/700 ADL and M/700 BDL rifles tested. The following results were obtained:

<u>Model</u>	-	<u>Yellow Spring Malfunctions</u>	-	<u>Red Spring Malfunctions</u>
M/700 BDL	-	59	-	83
M/700 ADL	-	35	-	43
M/Seven	-	21	-	27
Total	-	115	-	153

**REPORT TEXT**

The test was conducted using slow feed, medium feed, and fast feed cycles, in both live unload and firing modes.

Two types of ammunition were used:

Cartridge A: Remington R2221, 50 gr. PSP  
Cartridge B: Remington R2224, 55 gr. Metal Case

The following results were obtained:

Total Malfunctions	=	268
Total Live-Unload Malfunctions	=	95
Total Fired Malfunctions	=	173
Total Cart. A Malfunctions	=	141
Total Live-Unload Malfunctions	=	48
Total Fired Malfunctions	=	93
Total Cart. B Malfunctions	=	127
Total Live-Unload Malfunctions	=	47
Total Fired Malfunctions	=	80
Total Yellow Spring Malfunctions	=	115
Total Cart. A (Yellow Spring) Malfunctions	=	64
Total Cart. B (Yellow Spring) Malfunctions	=	51
Total Red Spring Malfunctions	=	153
Total Cart. A (Red Spring) Malfunctions	=	76
Total Cart. B (Red Spring) Malfunctions	=	77

For malfunctions breakdown per individual spring, per round out of magazine box, per model, per ammunition type, per feeding cycle speed and per rifle, refer to data sheets located in Appendix "A".

**TEST PROCEDURE****A. Preparation:**

- o The results generated by the first phase of the M/Seven & M/700 .222 Caliber Follower-Spring Evaluation were reviewed, and the two (2) best and the two (2) worst performing rifles were selected in the M/Seven, M/700 ADL, and the M/700 BDL. The following rifles were selected:

	<u>Best Performing</u>	<u>Worst Performing</u>
M/7	7602525	7602593
	7602568	7602529
M/700 ADL	B6295043	B6327369
	B6293294	B6257041
M/700 BDL	B6294940	B6361428
	B6293053	B6257066

- o Design No. 6 No-Bind Followers were assembled on six (6) Yellow Springs and six (6) Red Springs.

**B. Sequence:**

- 1) One of the twelve rifles to be tested was selected at random and assembled with the first Yellow Spring - Design No. 6 No-Bind Follower combination.
- 2) The rifle was then placed in a shooting jack and eighteen (18) rounds of ammunition were cycled through the rifle, without firing. (Six at slow feeding cycle speed, six at medium feeding cycle speed, and six at fast feeding cycle speed). All malfunctions were recorded.
- 3) The eighteen (18) rounds were recycled through the rifle at the same feeding cycle speeds with each round being fired. All malfunctions were recorded.
- 4) The rifle was removed from the shooting jack and the first Yellow Spring Design No. 6 No-Bind Follower was removed and reassembled in another of the twelve (12) rifles to be tested.
- 5) Steps 1 through 4 were repeated until all the test rifles had been functioned with the first Yellow Spring - Design No. 6 No-Bind Follower.
- 6) Steps 1 through 5 were then done with the first Red Spring - Design No. 6 No-Bind Follower.
- 7) The alteration of the Yellow Spring and The Red Spring combination was continued until all twelve (12) Spring-Follower combinations had been functioned in each test rifle.

**TEST PROCEDURE - cont'd.**

B. Sequence - cont'd.

- 8) The twelve (12) rifles were reassembled with their original springs and followers and taken to the Model Shop for measurements.
- 9) The data generated by this test was compiled and the Data Sheets included with this report.
- 10) The entire test was completed by Fred Supry (Specialist - Research Test Lab).

C. Appendix:

o Appendix A

Malfunction Data Sheet

Malfunctions per round out of magazine by Model.  
Malfunctions per round out of magazine per ammo type.  
Malfunctions per round out of magazine per spring type.  
Variable breakdown.

Appendix B

o Work Sheets

**BARBER - PRESALE R 0113670**

Report No. 821321

**APPENDIX " A "**

(Data Sheets)

**BARBER - PRESALE R 0113671**

M/Seven & M/700 .222 caliber Follower - Spring Evaluation  
Supplement to Report No. 821321

Report No. 821321  
April 12, 1983

**Malfunctions - Variable Breakdown**

Total Malfunctions = 268

Total Live Unload = 95

Total Fired = 173

**Malfunctions**

Total A (ammo) = 141

Total Live Unload = 48

Total Fired = 93

Total Yellow Spring = 115

Total Yellow A = 64

Total Yellow B = 51

**Malfunctions**

Total B (ammo) = 127

Total Live Unload = 47

Total Fired = 80

Total Red Spring = 153

Total Red A = 76

Total Red B = 77

**Best Rifles**

	Yellow	Red
M/700 BDL	12	6
M/700 ADL	17	20
M/Seven	<u>0</u>	<u>1</u>
Total	29	27

**Worst Rifles**

	Yellow	Red
	47	77
	18	23
	<u>21</u>	<u>26</u>
	86	126

**Totals**

	Yellow	Red
M/700 BDL	59	83
M/700 ADL	35	43
M/Seven	21	27

12-108 PRE SALE  
MODEL 7,700 ADL, 700 BDL - SPRING COMPARISON  
with #6 NO BIND FOLLOWER  
MALFUNCTION DATA SHEET

821321

4-12-83

FLS

SPRING	ARMED	F.T.D.	S.J.M.	B.C.R.	SL.	S.R.	S.H.	S.L.
NO.	CODE	LIVE FIRE						
1	Y-1 A	2	2	3	4	1	3	6
2	MALE #27						2	1
3							1	
4	Y-2 B			3	4	1	3	2
5	MALE #16							
6								
7	Y-3 A			2	3	2	4	3
8	MALE #20						1	
9								
10	Y-4 B			5	2	3	7	
11	MALE #17							
12								
13	Y-5 A	3	2	2	2	1	4	1
14	MALE #15							
15								
16	Y-6 B	3	1	5	1	3	2	2
17	MALE #18							
18	TOTAL A	2	5	6	6	14	3	7
19	B	3	2	4	14	4	9	3
20						11	11	11
21	R-1 B			2	2	5	8	3
22	MALE #35							
23								
24	R-2 A			2		4	9	2
25	MALE #21							
26								
27	R-3 B		1	3	1	3	3	2
28	MALE #19							
29								
30	R-4 A		2	5	3	1	7	2
31	MALE #26							
32								
33	R-5 B		1	1	4	4	4	6
34	MALE #27							
35								
36	R-6 A		3	3	1	7	3	4
37	MALE #29							
38	TOTAL A		5	8	3	10	8	13
39	B		11	6	7	9	15	10
40							11	11

MONTH	TEST	SUBJECT	SLOW						MEDIUM						FAST						#	SERIAL
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
7	A	Y	L	F																	1	7602568
7	B	Y	L	F																	1	7602568
7	A	Y	L	F																	2	7602529
7	B	Y	L	F																	2	7602529
7	A	Y	L	F	2	2	1														9	7602593
7	B	Y	L	F	1	1															9	7602593
7	A	Y	L	F																	10	7602525
7	B	Y	L	F																	10	7602525
TOTAL			L	F	2	2	1													=	8	714
A			L	F	1	1														=	2	721
TOTAL			L	F	1															=	5	77
B			L	F	■	4	3	2												=	21	
TOTAL			L	F																		

TEST: (MODEL 7) MALFUNCTIONS DATE: 4-12-83 TESTER: FLS PG. 1 WR# 821321 Supp.  
per round out of magazine

MODEL	"WIT"	"MFR."	SLOW						MEDIUM						FAST						#	SERIAL	
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6			
7	A	R	L	I	F	L															1	7602568	
7	B	R	R	F	L																1	7602568	
7	A	R	R	F	L																2	7602529	
7	B	R	R	F	L																2	7602529	
7	A	R	R	F	2		2			2		1				1		1			9	7602593	
7	B	R	R	F	3		3			1											9	7602593	
7	A	R	R	F	L																10	7602525	
7	B	R	R	F	L																10	7602525	
TOTAL			L	I	F	L				1											=	5 > 15 > 27	
A			L	I	F	L				2		1										=	10 = 6 > 12
TOTAL			L	I	F	L				3		1										=	6 = 6
B			L	I	F	L				3		1										=	27
TOTAL			L	I	F	L				7	4	4			5	1		1	3	2			

TEST: (MODEL 7) MALFUNCTIONS per DATE: 4-12-83 TESTER: FLS PG. 2 WR# B21321  
 round out of Magazine.

MAGAZINE NUMBER	TESTER	TEST	SLOW						MEDIUM						FAST						# SERIAL
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
700	A	R	L						1						1					3	B6293294
ADL	A	R	F	L					1						1					"	
"	B	R	F	L					1						3	4	06257041				
"	A	R	F	L					1						1	4	"				
"	B	R	F	L					2						1	2					
"	A	R	F	L					2						1	1					
"	B	R	F	L					2						1	1					
"	A	R	F	L					2						1	1					
"	B	R	F	L					2						1	1					
"	A	R	F	L					2						1	1					
"	B	R	F	L					2						1	1					
TOTAL	A																				
TOTAL	B																				
TOTAL																					

TEST: (MODEL 700 ADL) MALFUNCTIONS DATE: 4-12-83 TESTER: FLS PG. 4 WAR# B21321  
 P+P round bullet of magazine.

MODEL	CART	SERIAL	SLOW						MEDIUM						FAST						#	SERIAL
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
700	A	Y	L	F				1													3	B6293294
ADL	"	B	Y	L	F			1	2	1								1			3	"
"	"	A	Y	L	F					1											4	B6257041
"	"	B	Y	L	F					1											4	"
"	"	A	Y	L	F					1											7	B6295043
"	"	B	Y	L	F					1											7	"
"	"	A	Y	L	F					1											8	B6327369
"	"	B	Y	L	F					1											8	"
"	"	A	Y	L	F					1											7	17
"	"	B	Y	L	F					1											10	35
TOTAL	A		L	F				1	2	1											=	
TOTAL	B		L	F				2	1	1											=	18
TOTAL			L	F				2	3	6	1	1	2	9	1	2	8			=	35	

TEST: MODEL 700 ADL DATE: 4-12-83 TESTER: FCS PG. 3 WR# 821321  
 MALFUNCTIONS PER ROUND OUT OF MAGAZINE.

MODEL	TEST	SHOOTER	SLOW						MEDIUM						FAST						#	SERIAL	
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6			
700	BDL	A	R	L	F																5	B6361428	
"	"	B	R	L	F																5	"	
"	"	A	R	L	F																6	B6293053	
"	"	B	R	L	F																6	"	
"	"	A	R	L	F																11	B6294940	
"	"	B	R	L	F																11	"	
"	"	A	R	L	F																11	"	
"	"	B	R	L	F																12	B6257066	
"	"	A	R	L	F					1	1	1	1	1		2	2	2	1		12	"	
"	"	B	R	L	F					1	1	1	1	1		2	3	2	2		12	"	
TOTAL			L						1	1	1	1	1	2		2	2	2	2		= 15	43	
A			F	I					1	3	2	3	1		2	3	3	3	5		= 28	83	
TOTAL			L						1	1	1	1	1		2	3	2	3	1		= 17	40	
B			F	I					1	1	1	2	2	1		2	3	3	2	3		= 23	
TOTAL			L						2	3	1	4	6	6	7	6	11	10	10	11		= 83	
			F	L	E																		

TEST: MODEL 700 BDL DATE: 4-12-83 TESTER: FLS PG. 6 WR# 821321  
MALFUNCTIONS PER ROUND OUT OF MAGAZINE.

MODEL	TESTER	SLOW	MEDIUM						FAST						#	SERIAL		
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4
700	A	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
BOL	"	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	A	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	B	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	A	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	"	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	B	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	"	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	A	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	"	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	B	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
TOTAL	A	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	TOTAL B	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4
	TOTAL	Y	L	F	L	F	L	F	1	2	3	4	5	6	1	2	3	4

TEST: MODEL 700 BOL DATE: 4-12-83 TESTER: FLS PR. 5 WR# 821321  
 MALFUNCTIONS PER ROUND OUT OF MAGAZINE.

821321

## MALFUNCTION BREAKDOWN

4-13-82

<u>SPRINGS</u>	<u>RED</u>	<u>YELLOW</u>	<u>TOTAL</u>
BOL -	83	59	142
AOL -	43	35	78
M7 -	27	21	48
<u>TOTAL</u> -	<u>153</u>	<u>115</u>	<u>268</u>

<u>SPRINGS</u>	<u>RED</u>	<u>YELLOW</u>	<u>TOTAL</u>	<u>TOTAL</u>
	<u>A</u>	<u>B</u>	<u>A</u>	<u>B</u>
AMMO -				↓
BDL -	32	51	16	43
AOL -	15	28	13	22
M7 -	11	16	8	13
<u>TOTAL</u> -	<u>58</u>	<u>95</u>	<u>37</u>	<u>78</u>
			<u>95</u>	<u>173</u>
				<u>268</u>

<u>FEEDING ROUND</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>TOTAL</u>
<u>TOTAL</u> { SLOW.	15	9	9	11	18	62
<u>TEST</u> { MEDIUM	19	11	11	20	29	90
{ FAST	16	19	20	19	42	116
<u>TOTAL</u>	<u>50</u>	<u>39</u>	<u>40</u>	<u>50</u>	<u>89</u>	<u>268</u>

MALFUNCTION      BREAK DOWN

821321  
4-13-82

Feeding Round		1	2	3	4	5	TOTAL
BOL	SLOW	1	1	3	5	5	15
	MED	6	8	10	13	10	47
	FAST	11	17	16	16	20	80
Sub	TOTAL →	18	26	29	34	35	142
ADL	SLOW	3	1	0	6	13	23
	MED	5	1	0	6	19	31
	FAST	1	1	0	3	19	24
Sub	Total →	9	3	0	15	51	78
m 7	SLOW	11	7	6	0	0	24
	MED	8	2	1	1	0	12
	FAST	4	1	4	0	3	12
Sub	Total →	23	10	11	1	3	48
	TOTAL →	50	39	40	50	89	268

**BARBER - PRESALE R 0113681**

Report No. 821321  
Supplement

**A P P E N D I X " B "**

(Work Sheets)

Mount	Color	Superior	Slow						Fast						Serial No.	#
			1	2	3	4	5	6	1	2	3	4	5	6		
7	A	Y-1 L													76025688	Yellow
7	A	Y-1 F													0	0 Spring
700 PDL	A	Y-1 L													2	7602529
700 PDL	A	Y-1 F													3	062982940
700 PDL	A	Y-1 L													4	B6257041
700 PDL	A	Y-1 F													5	B63614280
700 PDL	A	Y-1 L													6	86213053
700 PDL	A	Y-1 F													7	86295043
700 PDL	A	Y-1 L													8	86327369
700 PDL	A	Y-1 F													9	7602593
700 PDL	A	Y-1 L													10	76025250
700 PDL	A	Y-1 F													11	B6294940
700 PDL	A	Y-1 L													12	B6257066
700 PDL	A	Y-1 F														

DATE: 4-5-83 RECEIVED: RCS PC. 1 WRN 821321

TEST:

TEST	TESTER: ELS	# SERIAL	SLOW						MEDIUM						FAST					
			1			2			3			4			5			6		
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
100 BDL	B		L	R-1	F	L	SL	SL	L	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	12
100 BDL	B		R-1	F	L	SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	11
7	B		R-1	F	L	SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	10
7	B		R-1	F	L	SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	9
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	8
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	7
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	6
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	5
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	4
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	3
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	2
						SL	SL	SL	SL	SL	SL	SR	SL	SL	SL	SL	SL	SL	SR	1
																				0
																				0
																				0

MODEL	UNIT	SERIAL	SLOW						MEDIUM						FAST						# SERIAL
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
B	B	Y-2	L	F																	7
B	B	Y-2	L	F																	4
B	B	Y-2	L	F																	9
B	B	Y-2	L	F																	1
B	B	Y-2	L	F																	3
B	B	Y-2	L	F																	8
B	B	Y-2	L	F																	6
B	B	Y-2	L	F																	SL
B	B	Y-2	L	F																	SR
B	B	Y-2	L	F																	SR
B	B	Y-2	L	F																	SL
B	B	Y-2	L	F																	12
B	B	Y-2	L	F																	10
B	B	Y-2	L	F																	7
B	B	Y-2	L	F																	5
B	B	Y-2	L	F																	11
B	B	Y-2	L	F																	16

TEST:

DATE: 4-6-83 TESTER: FLS

PG. 3 WR# 821321

Model	Chord	Signature	Slow				Medium				Fast				#	Serial #	TEST: <u>✓</u>
			1	2	3	4	5	6	1	2	3	4	5	6			
A	R-L	L													2	<u>BARBER - PRESALE R 0113685</u>	
A	R-L	F													14	<u>Q1 mus.</u>	
A	R-L	F													0		
A	R-L	F													0		
A	R-L	F													0		
A	R-L	F													2		
A	R-L	F													1		
A	R-L	F													0		
A	R-L	F													21		
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															
A	R-L	E															

43  
Yellow  
Spring  
0 0  
Normal  
0 0  
N 3  
I 1  
8 3  
J 1  
3 8  
0 0  
0 0  
0 0  
3 20

MODEL	PISTON	SPRING	SLOW						MEDIUM						FAST						SERIAL #
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	
✓	A	Y3 L SL F							SL						SLM						9
✓	A	Y3 L F																			1
	A	Y3 L F																			7
	A	Y3 L F																			8
	A	Y3 L F																			SR BOR
	A	Y3 L F																			BIR
	A	Y3 L F																			4
	A	Y3 L F																			3
	A	Y3 L F																			12
	A	Y3 L F																			11
	A	Y3 L F																			2
	A	Y3 L F																			10
	A	Y3 L F																			5
	A	Y3 L F																			6
	A	Y3 L F																			3
	A	Y3 L F																			20

TEST: \_\_\_\_\_

DATE: 4-7-83 TESTER: FLS

PG. 5 WRP# 821321

MODEL	TYPE	STRIKES	SLOW						MEDIUM						FAST						#	SERIAL
			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
B	R3	L/F																			4	
B	R3	L/F																			2	
B	R3	L/F																			12	
B	R3	F																			11	
B	R3	F																			3	
B	R3	F																			1	
B	R3	F																			5	
B	R3	F																			10	
B	R3	F																			8	
B	R3	F																			6	
B	R3	F																			9	
B	R3	F																			7	
B	R3	F																			19	

TEST: \_\_\_\_\_

DATE: 4-7-83 TESTER: FLS

PG. 6 WR# 821321

		TEST						# SERIAL					
Height	Test	1	2	3	4	5	6	1	2	3	4	5	6
Slow	B	Y4	L	F									
	B	Y4	L	F									
	B	Y4	L	F	S	SL	SQ						
	B	Y4	L	F	S	SL	SQ						
	B	Y4	L	E									
	B	Y4	L	E									
	B	Y4	L	E									
	B	Y4	L	E									
	✓	B	Y4	L	E								
Medium	Test	1	2	3	4	5	6	1	2	3	4	5	6
Fast	B	Y4	L	F									
	B	Y4	L	F									
	B	Y4	L	F	SL	SQ	SRR						
	B	Y4	L	F	SL	SQ	SRR						
	B	Y4	L	F	SL	SQ	SRR						
	B	Y4	L	F	SL	SQ	SRR						



Model	WAV	SPEED	FASTER								# SERIAL	#5 Bellows spring	
			1	2	3	4	5	6	7	8	9		
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											
A	Y5	L											
A	Y5	F											

TEST: \_\_\_\_\_ DATE: 4-8-13 TESTER: FL3 PG. 9 WORK#821331

Normal const.	Tissue	SLOW					MEDIUM					FAST					# Serial #	
		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	
B	RS F	L																115 Mixed Spring
B	RS F	L																3
B	RS F	L																0
✓ B	RS F	L																27 Mar.
B	RS F	L																1
B	RS F	L																5
B	RS F	L																3
B	RS F	L																0
B	RS F	L																2
B	RS F	L																1
B	RS F	L																2
B	RS F	L																121
B	RS F	L																27
B	RS F	L																
B	RS F	L																
B	RS F	L																
B	RS F	L																

TEST: 4-8-83 TESTER: FLS PG. 10 WIRE#11421 DATE: 4-8-83

BARBER - PRESALE R 0113692

Month	Date	SLOW						MEDIUM						FAST						# SERIAL	# 18
		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6		
B	Y6	L												SR						10	
B	Y6	F	L											SL						12	
B	Y6	F	L	S	M									SR						3	
B	Y6	E	L											SL						8	
B	Y6	F	L											SR						1	
B	Y6	L													SR					9	
B	Y6	F	L												SR					6	
B	Y6	L													SR					4	
B	Y6	F	L												SR					2	
B	Y6	L													SR					0	
B	Y6	F	L												SR					0	
B	Y6	L													SR					0	
B	Y6	F	L												SR					18	

TEST:

DATE: 11-11-83 TESTER: ELS PG. 11 W# 521321

# SERIAL

MOTOR	SPEED	SLOW						MEDIUM						FAST					
		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
A	R6	L						SR	SP	SL	SR	SP	SL	SL	SR	SP	SL	SR	SL
A	R6	F	L					SR	SP	SL	SR	SP	SL	SR	SP	SL	SR	SP	SL
A	R6	F	F	L															
A	R6	F	F	L															
A	R6	F	F	F	L														
A	R6	F	F	F	F	L													
A	R6	F	F	F	F	F	L												
A	R6	F	F	F	F	F	F	L											
A	R6	F	F	F	F	F	F	F	L										
A	R6	F	F	F	F	F	F	F	F	L									
A	R6	F	F	F	F	F	F	F	F	F	L								
A	R6	F	F	F	F	F	F	F	F	F	F	L							
A	R6	F	F	F	F	F	F	F	F	F	F	F	L						
✓	A	R6	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	L					
A	R6	F	F	F	F	F	F	F	F	F	F	F	F	E					
TEST:																			