

C6522181

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSP Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00102774** Serial: **C6522181** Model: **M24 SWS** Center Fire Caliber: **7.62 NATO** Repairman: Status: **Closed 10/26/2005 7:48:55 AM**

Verify Repair

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **PR W7LZ CAMP SHELBY DET 57** **PR W7LZ CAMP SHELBY DET 57**

Address 1: **DEF TRAINING BDE ROTATION** **DEF TRAINING BDE ROTATION**

Address 2: **BLDG 6520 WAREHOUSE AVE** PO Box: **BLDG 6520 WAREHOUSE AVE** PO Box:

City: **CAMP SHELBY** **CAMP SHELBY**

State: **MS** Zip Code: **39407** Country: **US** State: **MS** Zip Code: **39407** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: **601-558-4593** Fax: Email: Comments:

Received Condition: Fair Condition Notes: CSR Notes:

Accessories Received:

Code	Desc	Qty
A008	Sling Strap	1
A010	Hard Case	1
A018	Scope Rings	2
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
C000	TORQUE WRENCH	1
C001	SPOTTING SCOPE	1

Handwritten: PWS SCOPE

Repair Search Refresh Close

negletj 10/26/2005 9:34 AM CAPS NUM INS SCPL

start 2 2 3 Arms S.

Serial Number: **C6522181**

Model: **M24 SWS**



RE00102774

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522181.___0
FILE DATE AND TIME: 11/19/2005 17:11

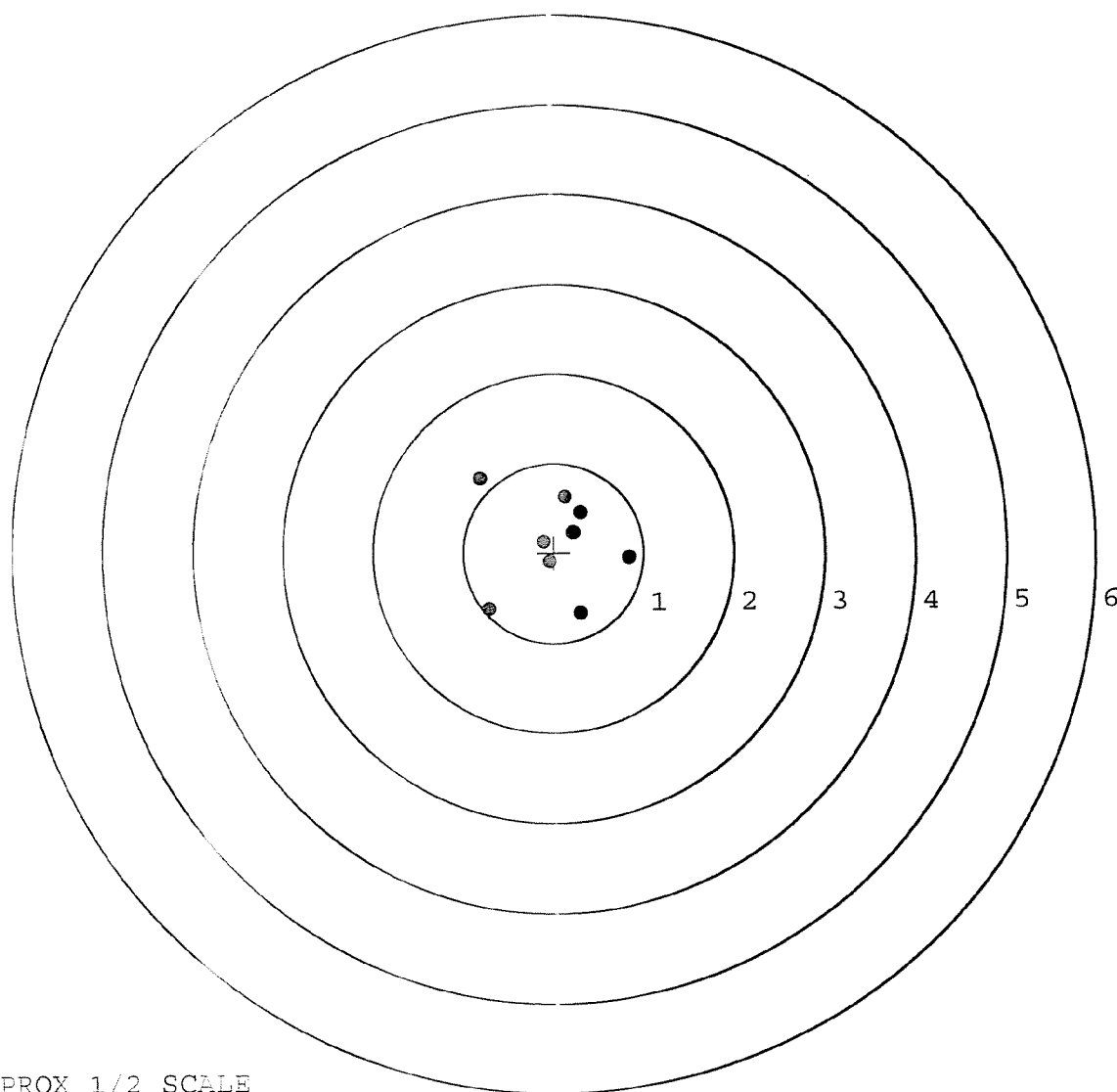
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.082
The Average Y Centroid of the Five Target Set:	0.075
The Average Point of Impact of the Five Target Set:	0.111
The Average Mean Radius of the Five Target Set:	0.600
The Distance from POA to Centroid Target #1:	0.108
The Distance from Centroid Target #2 to Centroid Target #1:	0.297
The Distance from Centroid Target #3 to Centroid Target #1:	0.223
The Distance from Centroid Target #4 to Centroid Target #1:	0.113
The Distance from Centroid Target #5 to Centroid Target #1:	0.141

SERIAL NUMBER: C6522181. __0
TARGET NUMBER: 1
FILE DATE: 11/19/2005
FILE TIME: 17:11

POINT#	X	Y
1:	-0.118	0.126
2:	-0.048	-0.101
3:	0.207	0.222
4:	0.226	0.222
5:	0.305	0.447
6:	0.132	0.624
7:	0.838	-0.054
8:	0.300	-0.673
9:	-0.721	-0.614
10:	-0.807	0.834

X CENTROID: 0.031
Y CENTROID: 0.103
POA TO CENTROID: 0.108
HORZ SPREAD: 1.645
VERT SPREAD: 1.507
GROUP SPREAD: 1.870
MIN RADIUS: 0.151
MAX RADIUS: 1.112
MEAN RADIUS: 0.557
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522181. 0

TARGET NUMBER: 2

FILE DATE: 11/19/2005

FILE TIME: 17:11

POINT#	X	Y
1:	0.081	-0.255
2:	-0.030	-0.057
3:	-0.350	-0.208
4:	-0.575	-0.110
5:	0.041	0.323
6:	0.329	0.254
7:	0.462	0.688
8:	-0.039	-0.809
9:	-1.275	-1.311
10:	0.036	0.038

X CENTROID: -0.132

Y CENTROID: -0.145

POA TO CENTROID: 0.196

HORZ SPREAD: 1.737

VERT SPREAD: 1.999

GROUP SPREAD: 2.648

MIN RADIUS: 0.135

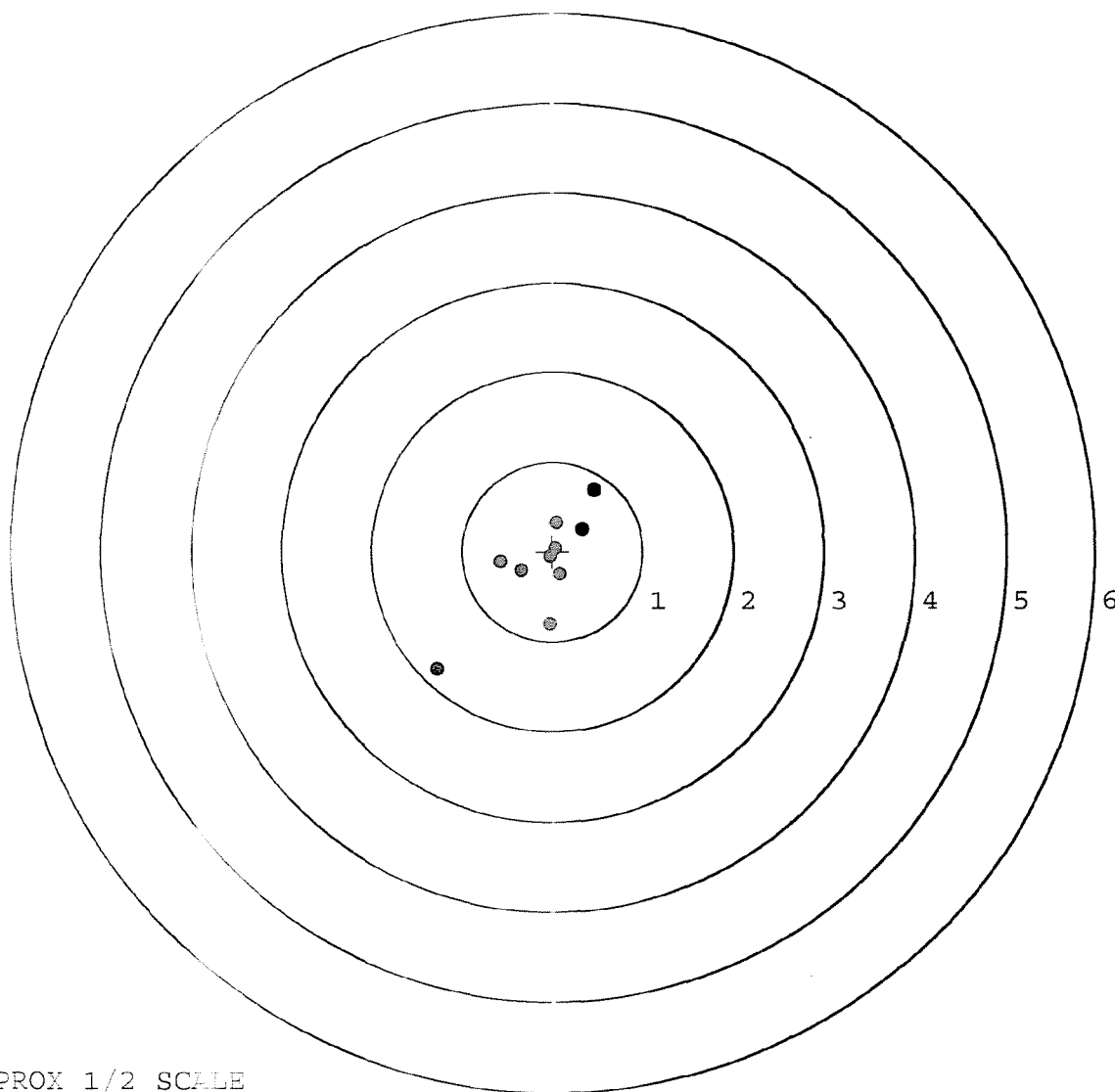
MAX RADIUS: 1.633

MEAN RADIUS: 0.573

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9

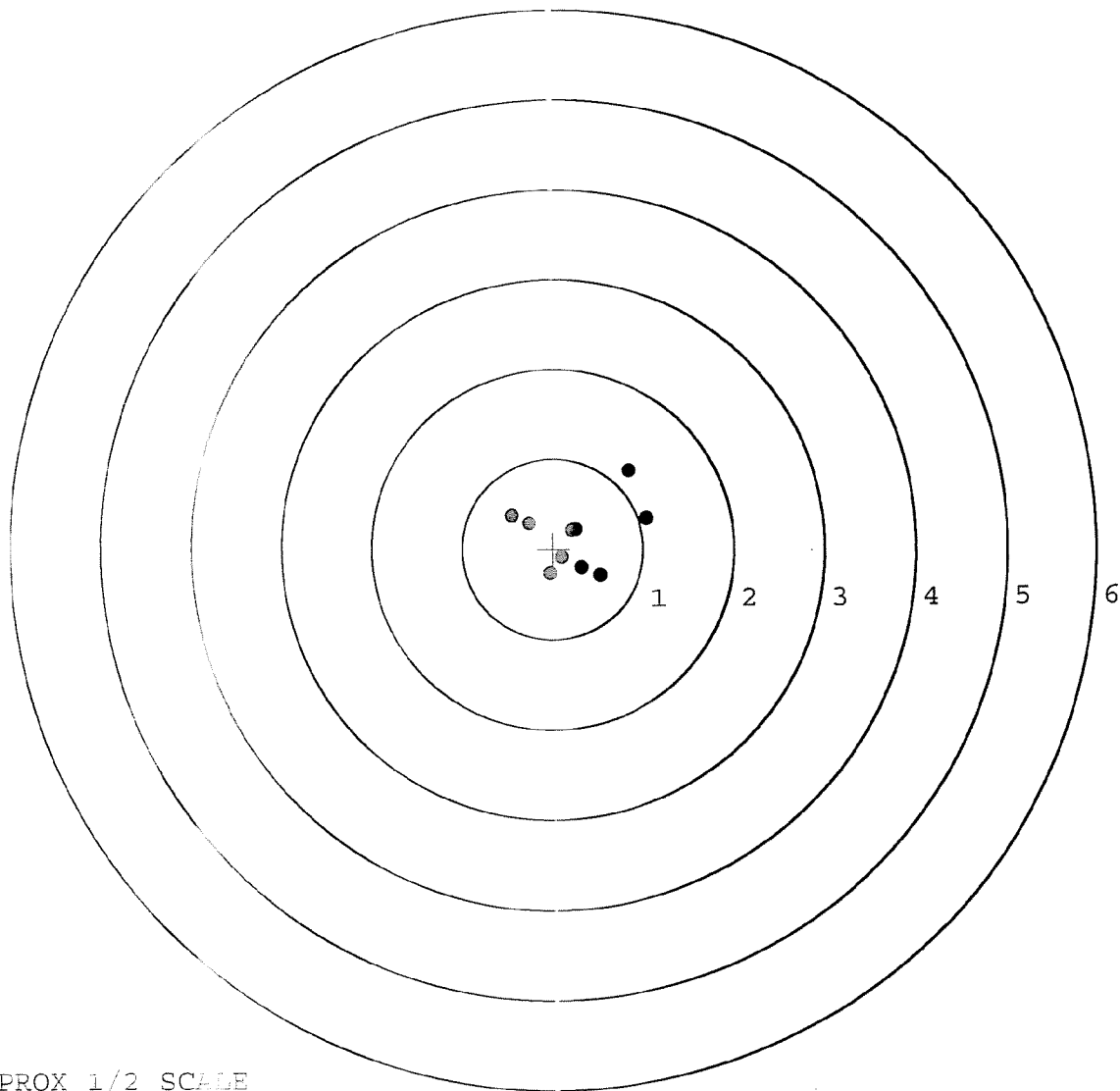


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522181. 0
TARGET NUMBER: 3
FILE DATE: 11/19/2005
FILE TIME: 17:11

X CENTROID: 0.252
Y CENTROID: 0.138
POA TO CENTROID: 0.287
HORZ SPREAD: 1.499
VERT SPREAD: 1.165
GROUP SPREAD: 1.440
MIN RADIUS: 0.077
MAX RADIUS: 0.936
MEAN RADIUS: 0.484
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.212	0.206
2:	1.039	0.333
3:	0.841	0.865
4:	0.523	-0.300
5:	0.315	-0.211
6:	-0.034	-0.279
7:	0.095	-0.097
8:	0.248	0.215
9:	-0.264	0.283
10:	-0.460	0.369



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522181. 0

TARGET NUMBER: 4

FILE DATE: 11/19/2005

FILE TIME: 17:11

POINT#	X	Y
1:	0.494	0.346
2:	0.417	0.906
3:	1.166	-0.015
4:	0.159	-1.060
5:	0.109	-0.314
6:	0.197	-0.021
7:	-0.014	0.276
8:	-0.412	0.187
9:	-1.175	0.068
10:	0.436	0.286

X CENTROID: 0.138

Y CENTROID: 0.066

POA TO CENTROID: 0.153

HORZ SPREAD: 2.341

VERT SPREAD: 1.966

GROUP SPREAD: 2.342

MIN RADIUS: 0.105

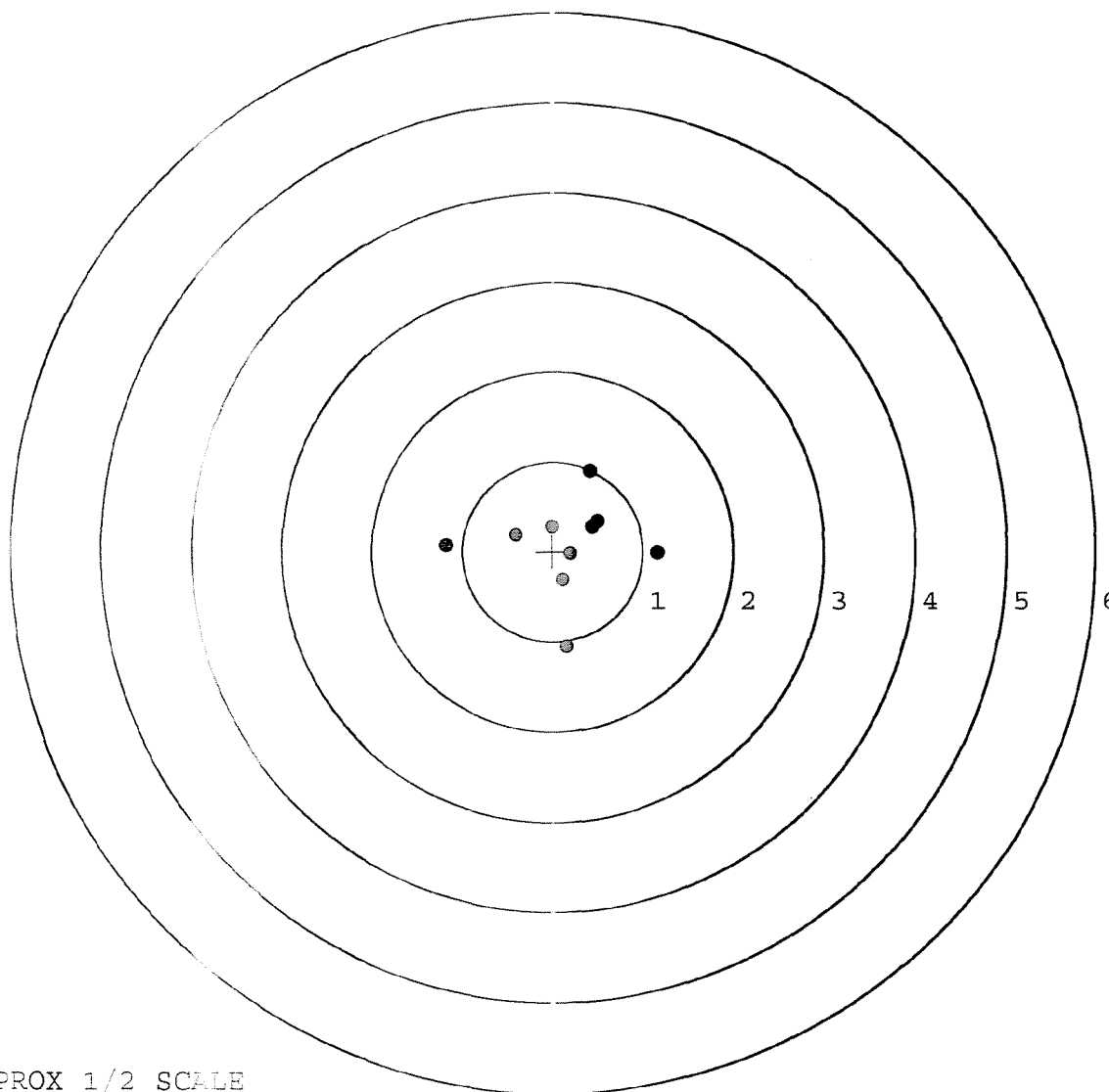
MAX RADIUS: 1.313

MEAN RADIUS: 0.649

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522181. 0

TARGET NUMBER: 5

FILE DATE: 11/19/2005

FILE TIME: 17:11

POINT#	X	Y
1:	0.207	0.002
2:	0.343	-0.138
3:	0.753	-0.605
4:	-0.209	-0.391
5:	-0.219	-0.169
6:	-0.215	0.303
7:	-0.627	-0.552
8:	0.841	0.526
9:	0.728	0.773
10:	-0.127	1.282
11:	-0.127	1.284

X CENTROID: 0.123

Y CENTROID: 0.210

POA TO CENTROID: 0.244

HORZ SPREAD: 1.468

VERT SPREAD: 1.889

GROUP SPREAD: 1.084

MIN RADIUS: 0.225

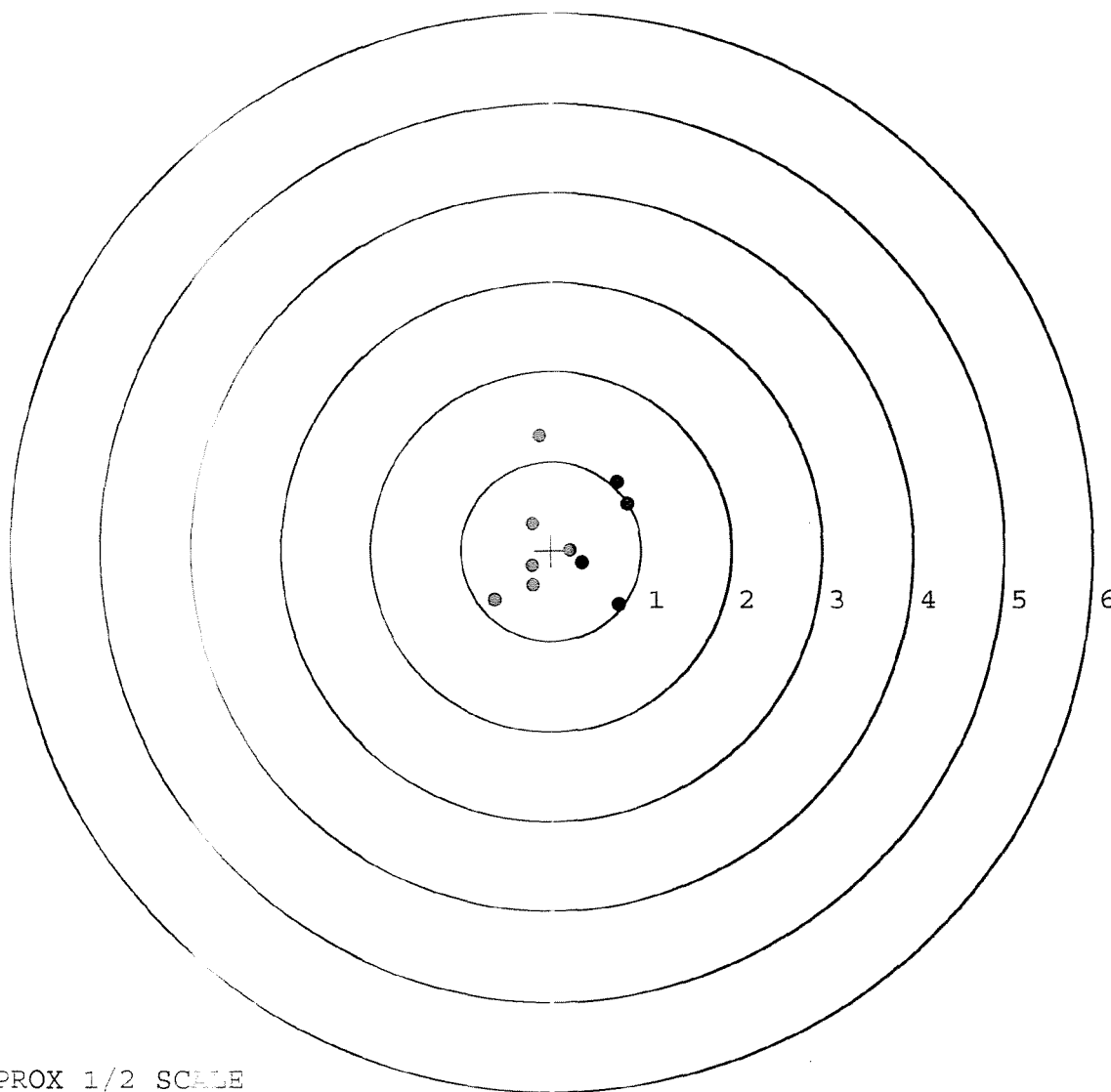
MAX RADIUS: 1.102

MEAN RADIUS: 0.736

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 11



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	102974		
SERIAL NUMBER	C 6522181		
LOG-IN DATE	10-20-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	11-2-05	AC
560 A	RE-BARREL	11-7-05	AC
B	DRILL AND TAP	11-11-05	BR
575	ASSEMBLE	11-14-05	CD
600	PROOF MAGNA-FLUX INSPECTED	11-14-05	CD
605	CHECK HEADSPACE	11-14-05	CD
610	DIS-ASSEMBLE GUN	11-14-05	CD
612	MAGNA-FLUX OPERATOR <i>unus</i>	11-15-05	<i>unus</i>
615	ROLLMARK CALIBER	11-15-05	CW
618	ROTO-BLAST	11-16-05	LB
620	APPLY COATINGS	11-16-05	HP
625 A	FINAL ASSEMBLY	11-17-05	AC
B	TRIGGER PULL TEST	11-21-05	AC
C	SAFETY "ON" FORCE	11-21-05	AC
D	SAFETY "OFF" FORCE	11-21-05	AC
E	FIRING PIN INDENT	11-21-05	AC
640	TARGET	11-19-05	MTM
655	FINAL INSPECT	11-21-05	AC
660	PACK	12-2-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	



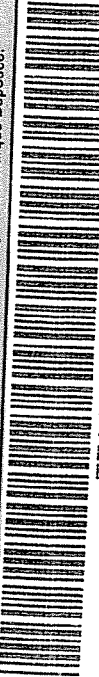

VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.

MODEL 700™

REG. U.S. PAT. & TM. OFF.

MODEL 700™ H24

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.



5716 06522181

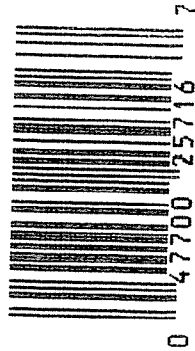
SERIAL NO.

06522181

ORDER NO.

5716

UPC



CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522181
9 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.302007
1 TO	2	.131848
1 TO	3	.0266271
1 TO	4	.371953
1 TO	5	.361321

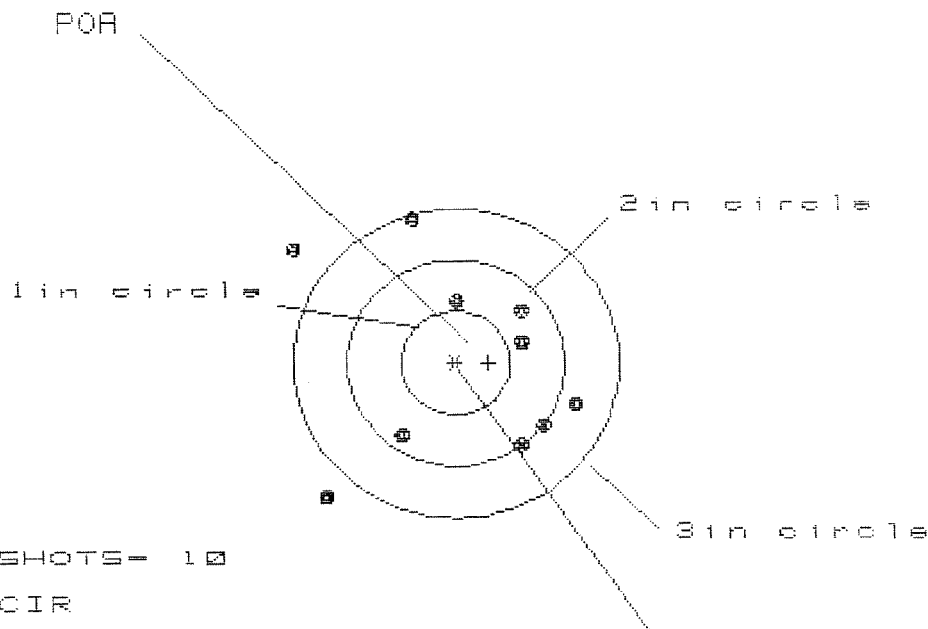
 <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1756
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1058
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .20501
FOR THIS RIFLE IS: 1.001

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C65221B1

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 5

3 in = 8

HS= 2.626

VS= 2.624

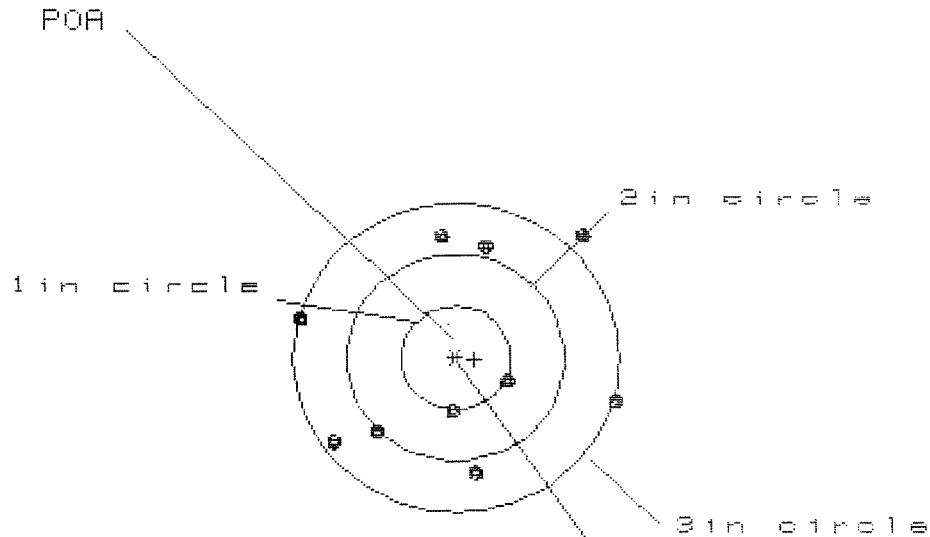
GS= 3.063

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.080	.908	.733
MINIMUM X	:	-1.546	-1.398	-.835
MAXIMUM Y	:	1.369	1.495	1.353
MINIMUM Y	:	-1.255	-1.129	-.792
CENTROID X	:	-.302	-.130	.045
CENTROID Y	:	-.002	-.128	.014
POA TO CENTROID in.	:	.302	.182	.047
MIN RADIUS	:	.599	.521	.297
MED. RADIUS	:	1.111	.983	.833
MAX. RADIUS	:	1.915	1.797	1.555
VERTICAL SPREAD	:	2.626	2.306	1.568
HORIZONTAL SPREAD	:	2.624	2.624	2.145
EXTREME SPREAD	:	3.063	2.745	2.377
SHOTS IN ONE INCH CIRCLE	=		0	
SHOTS IN TWO INCH CIRCLE	=		5	
SHOTS IN THREE INCH CIRCLE	=		8	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C85221B1

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 2

3 in = 8

HS= 2.870

VS= 2.304

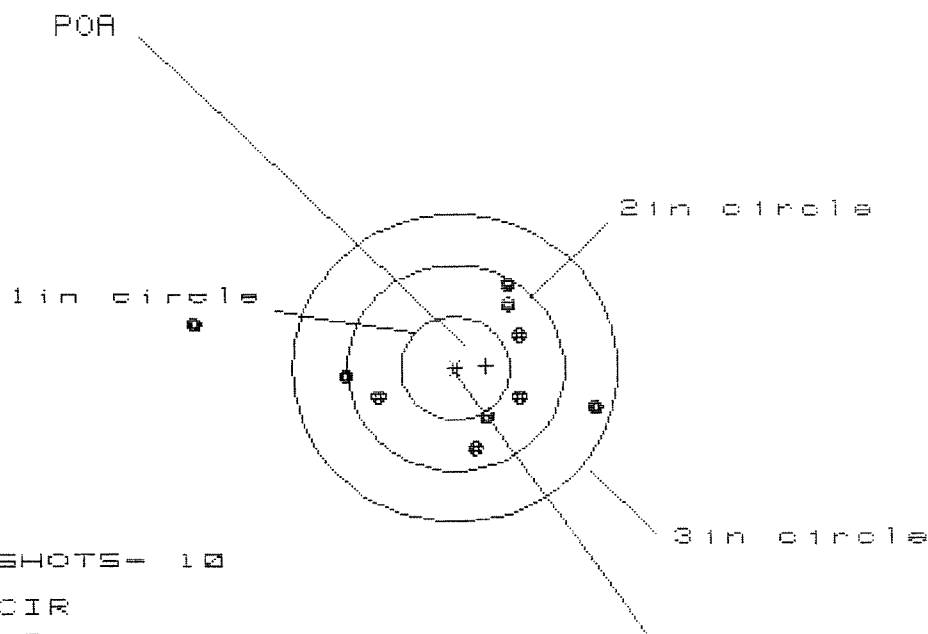
GS= 3.030

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.457	1.584	.753
MINIMUM X	:	-1.413	-1.286	-1.088
MAXIMUM Y	:	1.191	1.322	1.286
MINIMUM Y	:	-1.113	-.982	-1.018
CENTROID X	:	-.172	-.299	-.497
CENTROID Y	:	.020	-.111	-.075
POA TO CENTROID in.	:	.173	.319	.503
MIN RADIUS	:	.468	.396	.500
MEAN RADIUS	:	1.148	1.071	1.004
MAX RADIUS	:	1.639	1.610	1.310
HORIZONTAL SPREAD	:	2.870	2.870	1.841
VERTICAL SPREAD	:	2.304	2.304	2.304
EXTREME SPREAD	:	3.030	2.974	2.369
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		2	
NUMBER IN THREE INCH CIRCLE	=		8	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522181

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 7

3 in = 9

HS= 3.699

VS= 1.560

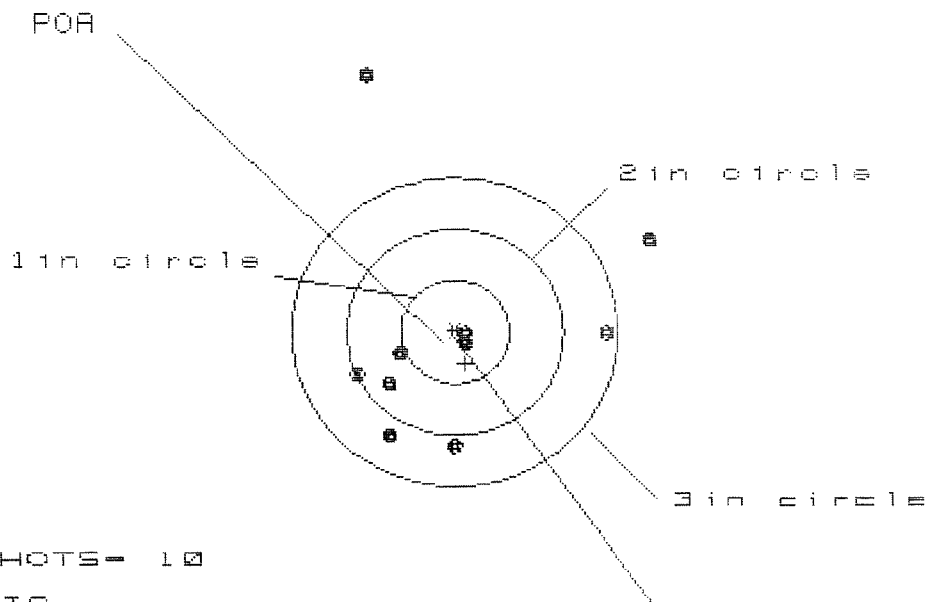
GS= 3.782

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.328	1.064	.495
MINIMUM X	:	-2.371	-1.268	-1.135
MAXIMUM Y	:	.796	.845	.808
MINIMUM Y	:	-.764	-.715	-.752
CENTROID X	:	-.287	-.023	-.156
CENTROID Y	:	-.024	-.073	-.036
POA TO CENTROID in.	:	.288	.077	.160
MIN RADIUS	:	.538	.362	.465
MEAN RADIUS	:	.986	.763	.733
MAX RADIUS	:	2.412	1.268	1.136
HORIZONTAL SPREAD	:	3.699	2.332	1.630
VERTICAL SPREAD	:	1.560	1.560	1.560
EXTREME SPREAD	:	3.782	2.348	1.742
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

9 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C85221B1

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 8

HS= 2.557

VS= 3.518

GS= 3.616

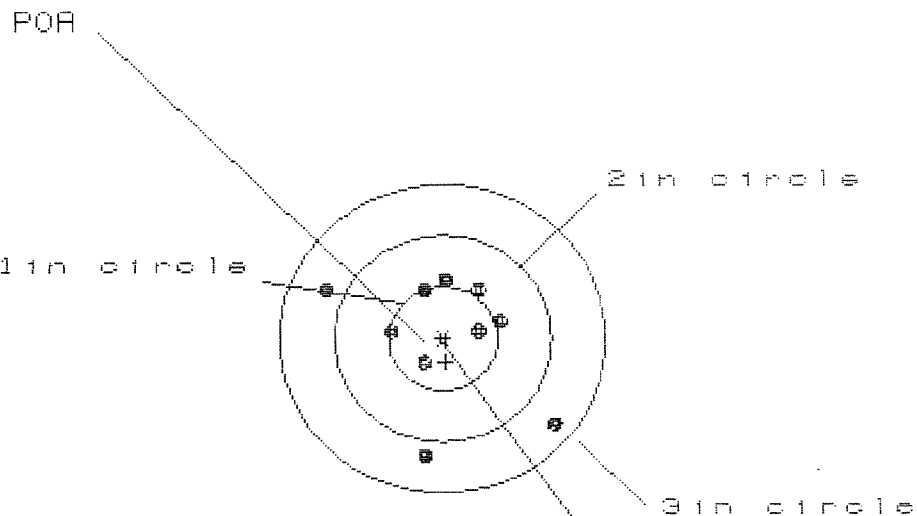
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.798	1.706	1.539
MINIMUM X	:	-.869	-.961	-.748
MAXIMUM Y	:	2.455	1.123	.391
MINIMUM Y	:	-1.063	-.790	-.649
CENTROID X	:	-.092	.000	-.213
CENTROID Y	:	.305	.032	-.108
POA TO CENTROID in.	:	.318	.032	.239
MIN RADIUS	:	.125	.141	.366
MEAN RADIUS	:	1.081	.878	.692
MAX RADIUS	:	2.593	2.042	1.583
HORIZONTAL SPREAD	:	2.667	2.667	2.287
VERTICAL SPREAD	:	3.518	1.913	1.041
EXTREME SPREAD	:	3.616	3.070	2.311
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

5 Sep 1990

FILE:/PATTERNING/CENTERFIRE_PATT/085221B1

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 4

2in = 7

3in = 10

HS= 2.046

VS= 1.651

GS= 2.402

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.979	.636	.516
MINIMUM X	:	-1.067	-.958	-.473
MAXIMUM Y	:	.522	.433	.478
MINIMUM Y	:	-1.129	-1.218	-1.173
CENTROID X	:	-.025	-.134	-.014
CENTROID Y	:	.230	.319	.274
POA TO CENTROID in.	:	.231	.346	.274
MIN RADIUS	:	.305	.350	.291
MEAN RADIUS	:	.680	.600	.539
MAX RADIUS	:	1.267	1.223	1.194
HORIZONTAL SPREAD	:	2.046	1.594	.989
VERTICAL SPREAD	:	1.651	1.651	1.651
EXTREME SPREAD	:	2.402	1.799	1.721
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6522181
DATE 8/31/90
TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.40	2.33	2.36	2.67	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.22	2.22	2.33	2.51	
PULL #3	2.35	2.33	2.38	2.52	
PULL #4	2.21	2.35	2.34	2.46	
PULL #5	2.27	2.34	2.35	2.52	
TOTAL	11.45	11.57	11.76	12.65	
AVG.	2.29	2.314	2.352	2.53	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.21	3.47		
PULL #2	3.22	3.38		
PULL #3	3.08	3.36		
PULL #4	3.50	3.29		
PULL #5	3.53	3.40		
TOTAL	16.54	16.83		
AVG.	3.308	3.366		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.48	4.37		4.26
PULL #2	4.55	4.33		4.31
PULL #3	4.35	4.31		4.14
PULL #4	4.00	4.33		4.34
PULL #5	4.36	4.33		4.31
TOTAL	21.76	21.67		21.36
AVG.	4.352	4.334		4.272

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6522181

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	8 2	90	RW
600	Proof	8 2	90	RW
607	Check Headspace	8 2	90	RW
610	Dis-assemble Gun	8 2	90	RW
612	Magnaflux Barrel Action		8/7/90	KR
	Magnaflux Bolt		8/7/90	KR
615	Rollmark Caliber		8/7/90	LS
617	Drill and Tap Sight Holes		8/10/90	RB
618	Polish Barrel RB		8/14/90	WB
620	Apply Coatings (Barrel Action)		8-24-90	TS
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		8/27/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/27/90	RW
	C) Inspect Ejector Hole for Chamfer		8/27/90	RW
	D) Oil Firing Pin Ass'y		8/27/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		8/27/90	SM

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/2	4 1/2	4 1/2			9/5/90	WB
	G) Safety Off Force	2	2	2			9/5/90	WB
	H) Trigger Pull Test & Retainability						8/31/91	JH
	I) Firing Pin Indent	.0225	.0225	.0225			9/5/90	WB
	J) Assemble Stock						9/9/90	RW
	K) Assemble Swivel Studs						9/9/90	JS
	L) Attach Front and Rear Sight Assemblies						9/9/90	RW
	M) Iron Sight Alignment						9/9/90	RW
	N) Detach Front & Rear Sights & place in numbered container						9/9/90	RW
	O) Attach Scope to Rifle						9/9/90	JS
	P) Detach & Attach Scope 20 Times						9/9/90	JS
640	Gallery Target & Test						9/9/90	KJ
	A) Time						9/9/90	KJ
	B) Malfunctions						9/9/90	KJ
	C) Pierced Primers						9/9/90	KJ
	D) Optical Clarity of Scope						9/9/90	KJ
645	Inspect for Live Ammo						9/9/90	KJ
655	Final Inspection						9/11/90	JS
	A) Headspace							
	B) Trigger Pull	2.64	2.51	2.52	2.46	2.52	9/10/90	WB
	C) Function						9/11/90	JS
660	Pack						9/19/90	VF