

06587555

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6587555



RE00080988

Fort Polk

BARBER - M24 **M2400022651**

BARBER - M24 0022613 FINAL INSPECTION CHECKLIST M-24 REPAIRS
CONTRACT #: DAAE-20-02-D-0127

SERIAL # C6587555 INSPECTED BY: RTL

DATE REC'D: 5-17-04 DATE RET'D: 6-7-04

ITEM

BARREL ASSEMBLY

☒ BARREL
☒ RECEIVER
☒ FRONT SIGHT BASE
☒ REAR SIGHT BASE
☒ SCREWS
☒ FINISH

SCOPE ASSEMBLY

☐ SCOPE
☐ SCOPE RINGS
☐ MOUNTING SCREWS
☐ MOUNTING BASE
☐ SCREWS
☐ FINISH
☐ CLARITY

ITEM

STOCK ASSEMBLY

☒ STOCK
☒ SLING AWIVEL STUDS
☒ ADJUSTABLE
☒ BUTT PLATE
☒ LOCK NUTS
☒ BARREL CLEARANCE
☒ COLOR / FINISH

SYSTEMS CASE

☐ SCOPE CASE
☐ IRON SIGHTS
☐ DEPLOYMENT KIT

TRIGGER ASSEMBLY

☒ SAFETY OPERATION
☒ RE-SET TO FACTORY SPECS

COMMENTS:

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)
3.00 LBS (plus or minus 0.75 LBS)
4.00 LBS (plus or minus 1.00 LBS)

SERIAL NO. _____

DATE 4-18-04

TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.62	2.56		2.59	
PULL #2	2.68	2.61		2.51	
PULL #3	2.67	2.59		2.51	
PULL #4	2.67	2.60		2.47	
PULL #5	2.55	2.57		2.52	
TOTAL	13.19	12.93		12.60	
AVERAGE	2.63	2.58		2.52	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.12	3.04		
PULL #2	3.06	3.15		
PULL #3	3.06	3.16		
PULL #4	3.02	3.13		
PULL #5	3.05	3.13		
TOTAL	15.31	15.61		
AVERAGE	3.06	3.12		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.20	4.29		4.48
PULL #2	4.24	4.26		4.42
PULL #3	4.06	4.34		4.39
PULL #4	4.34	4.20		4.36
PULL #5	4.35	4.36		4.44
TOTAL	21.19	21.45		22.09
AVERAGE	4.23	4.29		4.41

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587555.__0
FILE DATE AND TIME: 06/07/2004 06:44

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.008
The Average Y Centroid of the Five Target Set:	0.040
The Average Point of Impact of the Five Target Set:	0.041
The Average Mean Radius of the Five Target Set:	0.630
The Distance from POA to Centroid Target #1:	0.042
The Distance from Centroid Target #2 to Centroid Target #1:	0.234
The Distance from Centroid Target #3 to Centroid Target #1:	0.131
The Distance from Centroid Target #4 to Centroid Target #1:	0.236
The Distance from Centroid Target #5 to Centroid Target #1:	0.094

SERIAL NUMBER: C6587555. 0

TARGET NUMBER: 1

FILE DATE: 06/07/2004

FILE TIME: 06:44

X CENTROID: -0.038

Y CENTROID: 0.017

POA TO CENTROID: 0.042

HORZ SPREAD: 1.326

VERT SPREAD: 2.277

GROUP SPREAD: 2.332

MIN RADIUS: 0.223

MAX RADIUS: 1.226

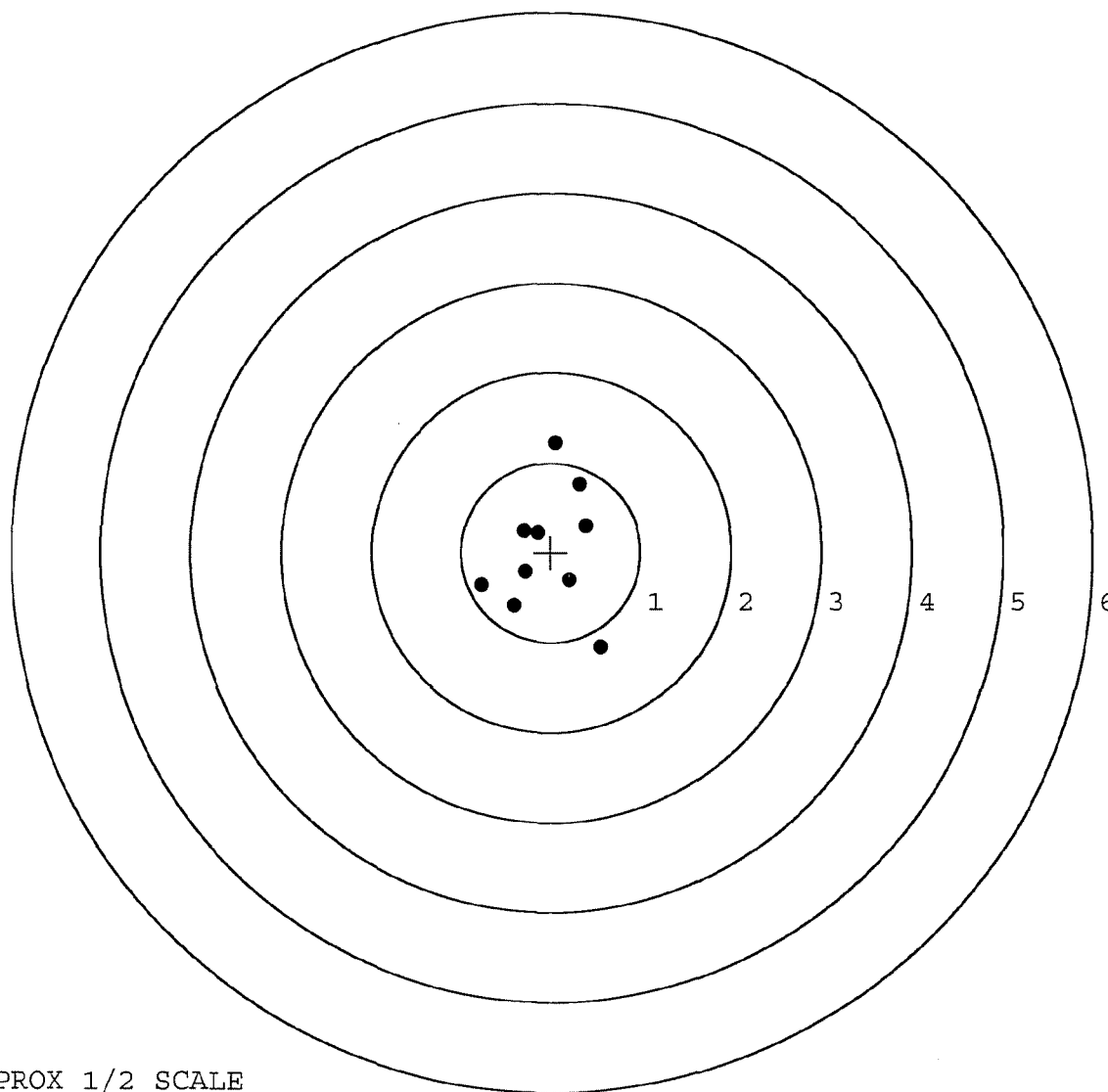
MEAN RADIUS: 0.664

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.554	-1.056
2:	0.051	1.221
3:	0.321	0.763
4:	0.392	0.294
5:	0.209	-0.307
6:	-0.298	0.237
7:	-0.283	-0.223
8:	-0.413	-0.600
9:	-0.772	-0.370
10:	-0.142	0.215



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587555. 0

TARGET NUMBER: 2

FILE DATE: 06/07/2004

FILE TIME: 06:44

X CENTROID: -0.271

Y CENTROID: -0.002

POA TO CENTROID: 0.271

HORZ SPREAD: 2.271

VERT SPREAD: 2.123

GROUP SPREAD: 2.356

MIN RADIUS: 0.266

MAX RADIUS: 1.355

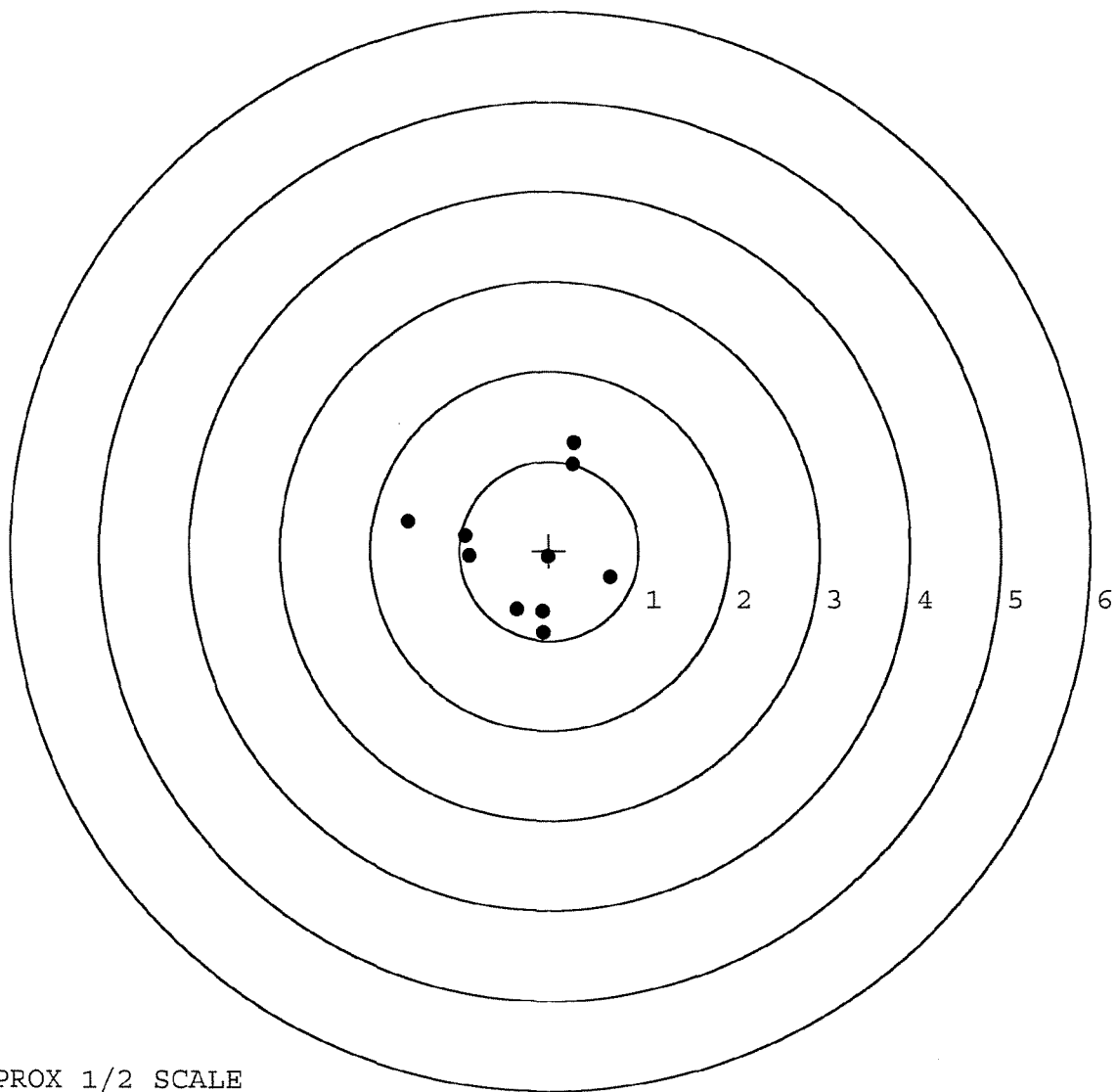
MEAN RADIUS: 0.868

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.274	1.207
2:	0.265	0.969
3:	0.686	-0.299
4:	-1.585	0.330
5:	-0.937	0.167
6:	-0.892	-0.064
7:	-0.364	-0.662
8:	-0.076	-0.681
9:	-0.070	-0.916
10:	-0.015	-0.073



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587555. 0

TARGET NUMBER: 3

FILE DATE: 06/07/2004

FILE TIME: 06:44

X CENTROID: 0.087

Y CENTROID: 0.053

POA TO CENTROID: 0.102

HORZ SPREAD: 1.704

VERT SPREAD: 1.354

GROUP SPREAD: 1.972

MIN RADIUS: 0.083

MAX RADIUS: 1.089

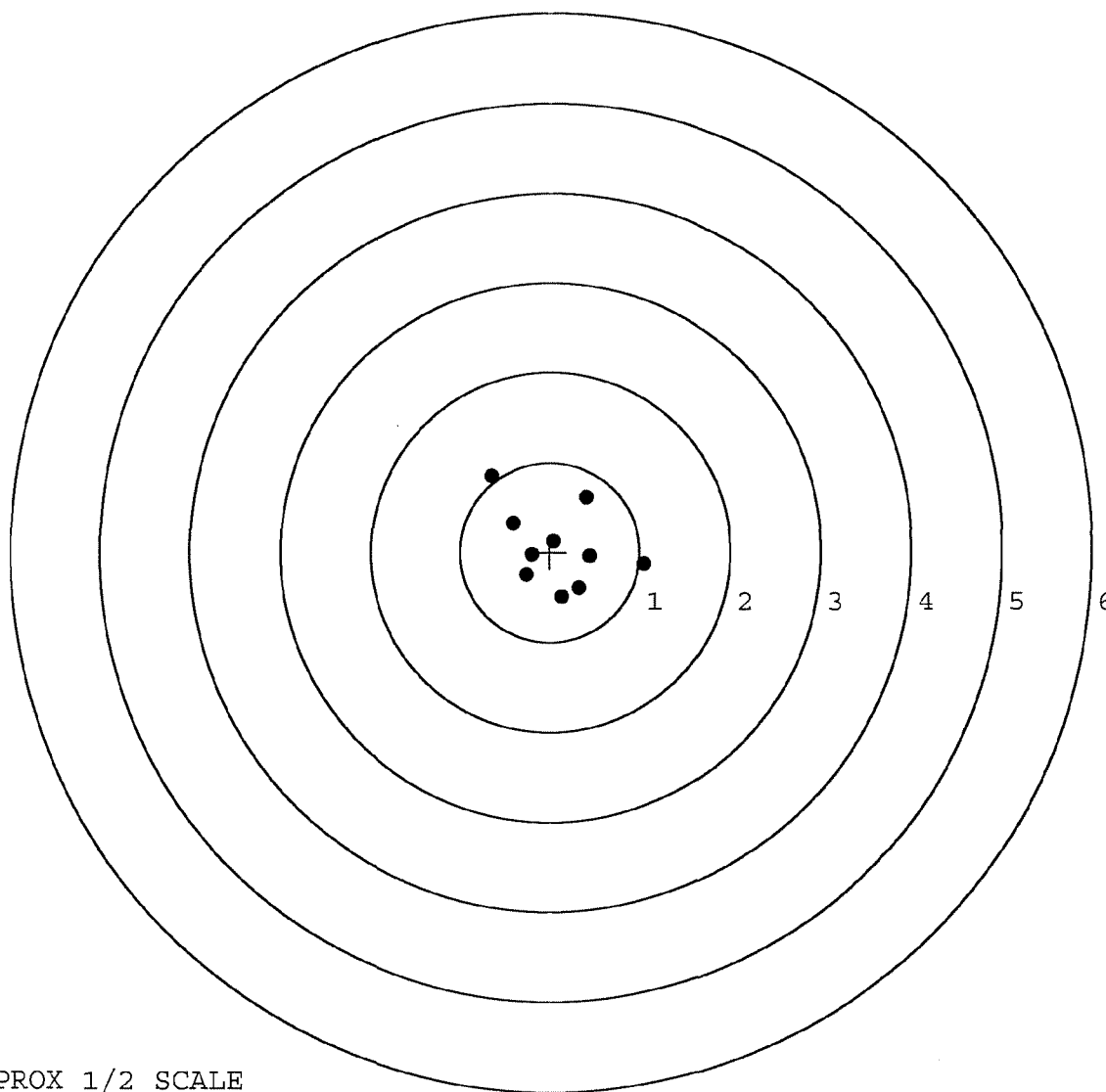
MEAN RADIUS: 0.559

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.052	-0.140
2:	0.406	0.609
3:	-0.652	0.853
4:	-0.418	0.324
5:	0.043	0.123
6:	-0.206	-0.028
7:	-0.265	-0.255
8:	0.134	-0.501
9:	0.327	-0.404
10:	0.453	-0.048



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587555. 0

TARGET NUMBER: 4

FILE DATE: 06/07/2004

FILE TIME: 06:44

POINT#	X	Y
1:	1.068	-0.741
2:	0.497	-0.223
3:	0.169	-0.270
4:	-0.197	-0.033
5:	0.041	0.052
6:	0.115	0.734
7:	-0.198	0.515
8:	0.275	-0.141
9:	0.259	-0.322
10:	-0.049	0.637

X CENTROID: 0.198

Y CENTROID: 0.021

POA TO CENTROID: 0.199

HORZ SPREAD: 1.266

VERT SPREAD: 1.475

GROUP SPREAD: 1.783

MIN RADIUS: 0.160

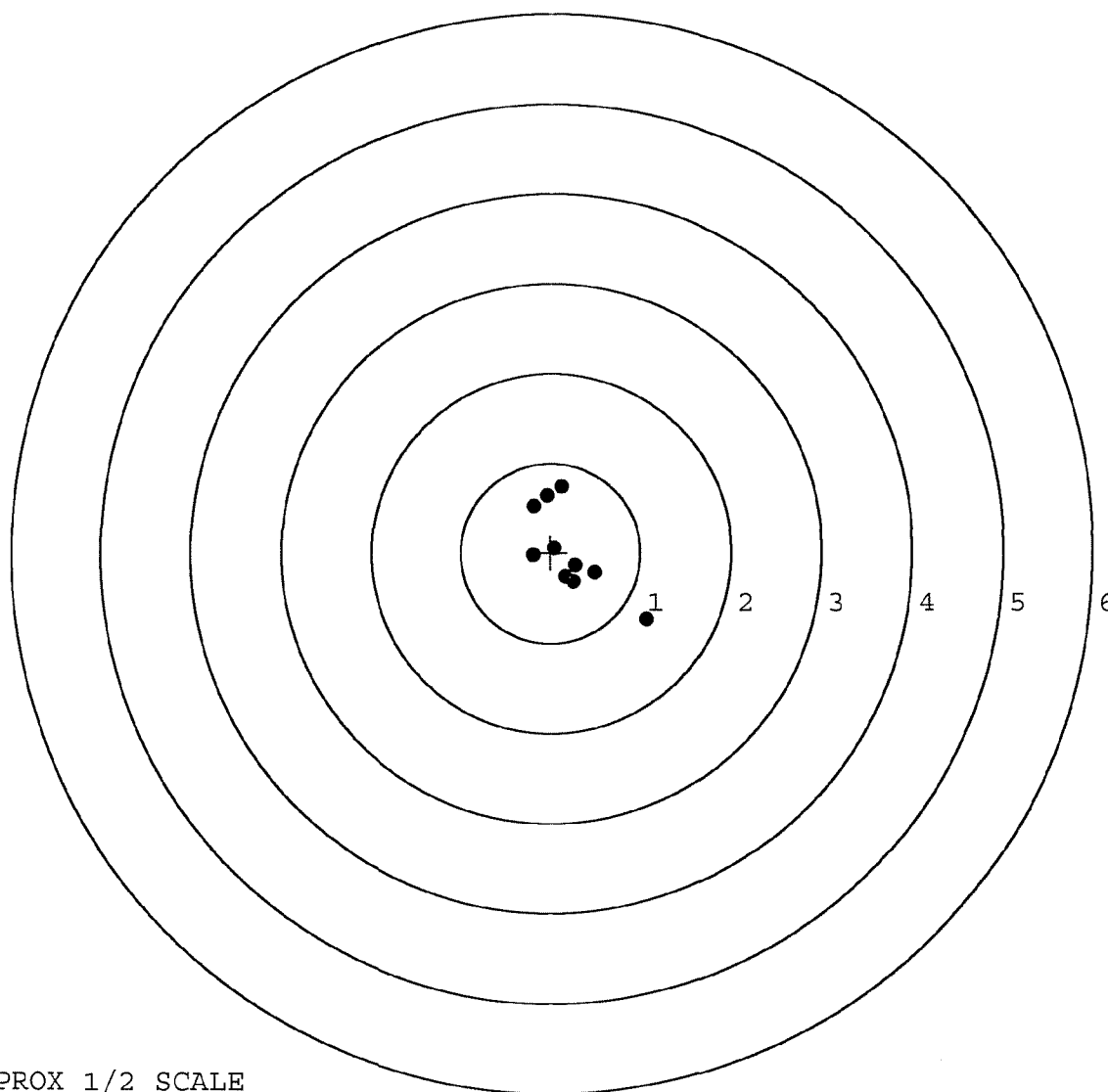
MAX RADIUS: 1.156

MEAN RADIUS: 0.494

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587555. __0

TARGET NUMBER: 5

FILE DATE: 06/07/2004

FILE TIME: 06:44

X CENTROID: -0.018

Y CENTROID: 0.109

POA TO CENTROID: 0.111

HORZ SPREAD: 1.191

VERT SPREAD: 2.062

GROUP SPREAD: 2.101

MIN RADIUS: 0.101

MAX RADIUS: 1.147

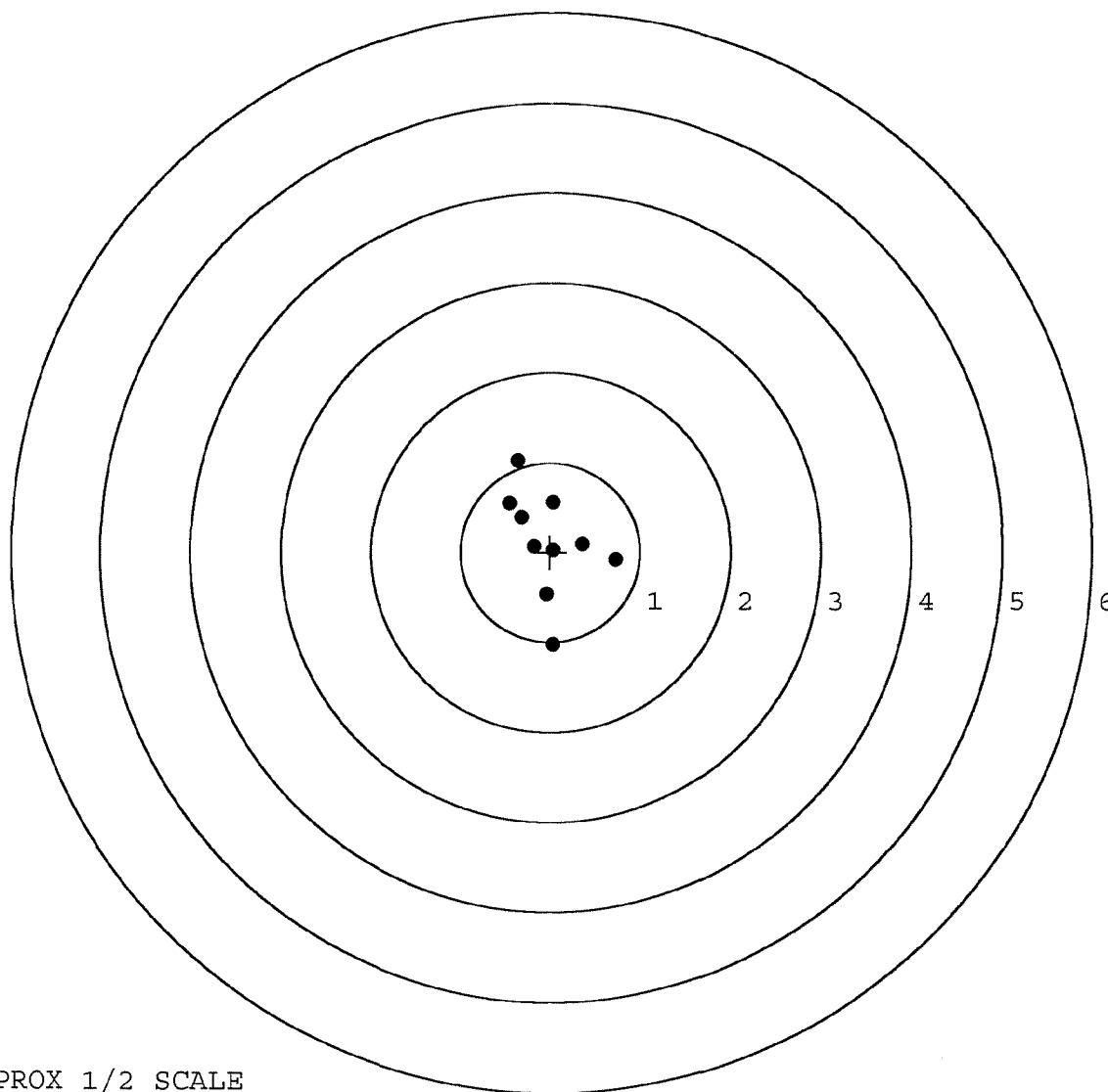
MEAN RADIUS: 0.564

IN 1 IN DIAMETER: 5

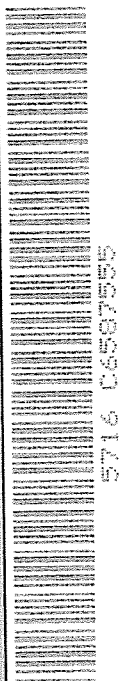
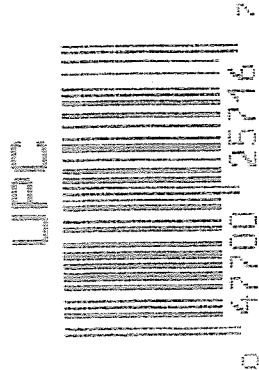
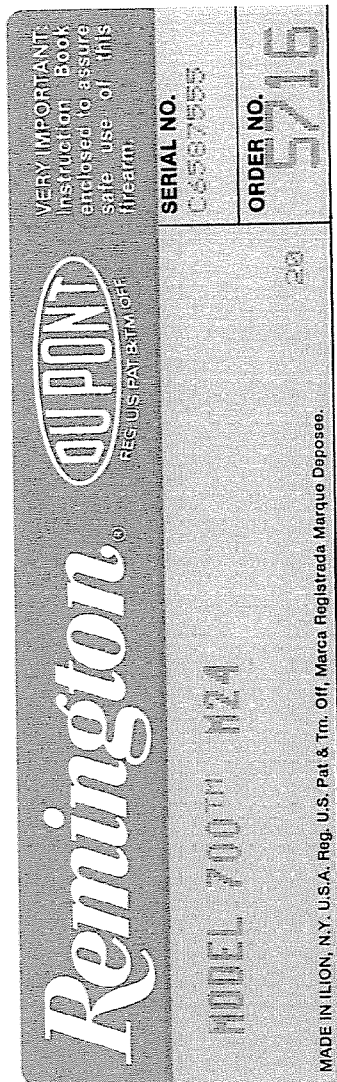
IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.037	-1.036
2:	-0.044	-0.480
3:	-0.366	1.026
4:	0.030	0.557
5:	0.728	-0.090
6:	0.366	0.089
7:	0.039	0.026
8:	-0.182	0.061
9:	-0.328	0.392
10:	-0.463	0.549



TARGET APPROX 1/2 SCALE



CONTRACT # DAAA21-87-C-0086

NEW BBL

GUN SERIAL # C 6587555

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/24/90	KJ
600	Proof		10/24/90	KJ
607	Check Headspace		10/24/90	KJ
610	Dis-assemble Gun		10/24/90	KJ
612	Magnaflux Barrel Action		10/30/90	KR
	Magnaflux Bolt		10/30/90	KR
615	Rollmark Caliber		10/30/90	LS
617	Drill and Tap Sight Holes		11/6/90	KB
618	Polish Barrel <i>KB</i>		11/7/90	WB
620	Apply Coatings (Barrel Action)		11/7/90	JA
	Apply Coating (Bolt)		11/7/90	JA
625	Final Assembly A) Clean inside of Bolt Assembly		11/17/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/17/91	KS
	C) Inspect Ejector Hole for Chamfer		11/17/91	KS
	D) Oil Firing Pin Ass'y		11/17/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		1-18-91	JA

op. #	BARBER - M24 0022623 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/4	4 1/4	4 1/4			1/18/91	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			1/18/91	WB
	H) Trigger Pull Test & Retainability						1-18-91	J21
	I) Firing Pin Indent	.021	.0207	.021			1/18/91	WB
	J) Assemble Stock						1/23/91	KS
	K) Assemble Swivel Studs						2-4-91	✕
	L) Attach Front and Rear Sight Assemblies						1/23/91	KS
	M) Iron Sight Alignment						1/23/91	KS
	N) Detach Front & Rear Sights & place in numbered container						1/23/91	KS
	O) Attach Scope to Rifle						1/23/91	KS
	P) Detach & Attach Scope 20 Times						1/23/91	KS
640	Gallery Target & Test						1-23-91	AF
	A) Time						"	AF
	B) Malfunctions						"	AF
	C) Pierced Primers						"	AF
	D) Optical Clarity of Scope						"	AF
645	Inspect for Live Ammo						1-23-91	AF
655	Final Inspection							
	A) Headspace						2-4-91	✕
	B) Trigger Pull	2.50	2.53	2.55	2.66	2.57	2-1-91	JM
	C) Function						2-4-91	AC
660	Pack						3-18-91	AF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO 06587555

DATE 1-18-91

TESTER JH.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.41	2.42	2.20 2.20	2.50	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.45	2.27	2.25	2.53	
PULL #3	2.47	2.25	2.30	2.55	
PULL #4	2.47	2.27	2.36	2.56	
PULL #5	2.45	2.22	2.28	2.57	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.47	3.48		
PULL #2	3.40	3.38		
PULL #3	3.26	3.50		
PULL #4	3.50	3.45		
PULL #5	3.22	3.20		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.41	4.17		4.46
PULL #2	4.29	4.34		4.39
PULL #3	4.22	4.32		4.26
PULL #4	4.33	4.31		4.33
PULL #5	4.27	4.44		4.41
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587555
24 Jan 1991

CENTROIDAL DISTANCES

0	TO	1	.035609
1	TO	2	.19368
1	TO	3	.123016
1	TO	4	.145454
1	TO	5	.0572014

✖ (----POI

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0272
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0436
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0513887

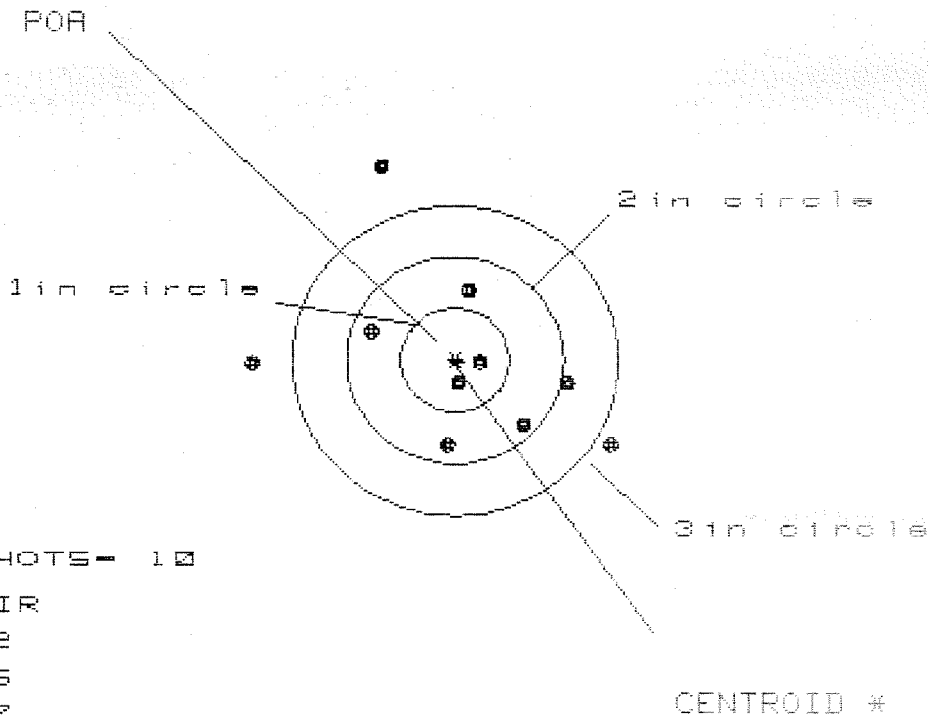
THE AMR FOR THIS RIFLE IS: .8786

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8587555

CENTERFIRE PATTERNS

1



OF SHOTS - 10

IN CIR

1 in = 2

2 in = 5

3 in = 7

HS = 3.277

VS = 2.724

GS = 3.482

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.383	1.310	1.064
MINIMUM X	-1.895	-1.967	-1.124
MAXIMUM Y	1.873	.854	.874
MINIMUM Y	-.851	-.642	-.622
CENTROID X	-.028	.044	.290
CENTROID Y	.022	-.187	-.207
FOR TO CENTROID in.	.036	.192	.356
MIN RADIUS	.231	.012	.190
MEAN RADIUS	1.010	.850	.696
MAX RADIUS	1.985	1.974	1.232
HORIZONTAL SPREAD	3.277	3.277	2.188
VERTICAL SPREAD	2.724	1.496	1.496
EXTREME SPREAD	3.482	3.374	2.443
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	7		

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6587555

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 5

2in = 8

3in = 10

HS= 2.122

VS= 2.060

GS= 2.250

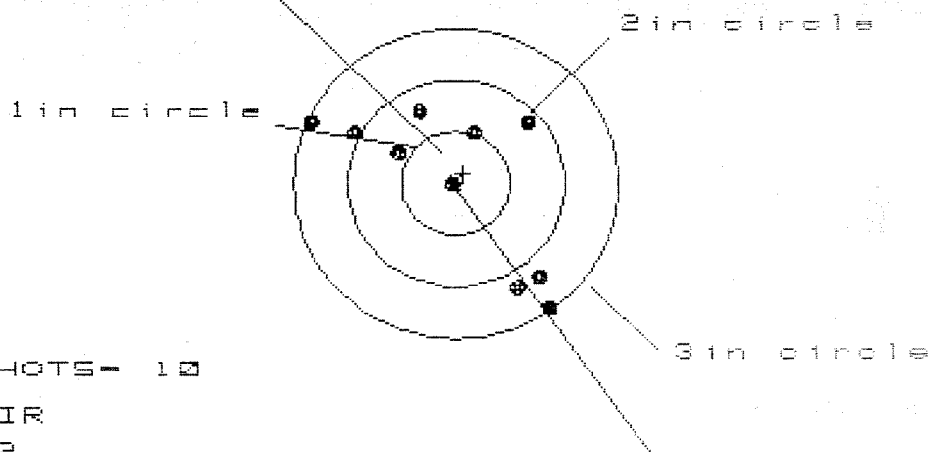
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.200	.589	.501
MINIMUM X	:	-.922	-.789	-.716
MAXIMUM Y	:	1.304	1.220	.529
MINIMUM Y	:	-.756	-.840	-.687
CENTROID X	:	.158	.025	-.048
CENTROID Y	:	-.032	.052	-.101
POA TO CENTROID in.	:	.162	.058	.112
MIN RADIUS	:	.192	.283	.344
MEAN RADIUS	:	.715	.641	.538
MAX RADIUS	:	1.415	1.355	.722
HORIZONTAL SPREAD	:	2.122	1.378	1.217
VERTICAL SPREAD	:	2.060	2.060	1.216
EXTREME SPREAD	:	2.250	2.172	1.317
NUMBER IN ONE INCH CIRCLE	=		5	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06587555

CENTERFIRE PATTERNS # 3

POA



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 10

HS= 2.213

VS= 1.849

GS= 2.868

CENTROID #

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.882	.859	.705
MINIMUM X	-1.331	-1.233	-.989
MAXIMUM Y	.659	.527	.590
MINIMUM Y	-1.190	-1.129	-1.066
CENTROID X	-.066	-.164	-.010
CENTROID Y	-.095	.037	-.026
POA TO CENTROID in.	.116	.168	.028
MIN RADIUS	.036	.165	.124
MEAN RADIUS	.902	.815	.756
MAX RADIUS	1.481	1.331	1.193
HORIZONTAL SPREAD	2.213	2.092	1.694
VERTICAL SPREAD	1.849	1.656	1.656
EXTREME SPREAD	2.868	2.579	2.150
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6587555

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 2

2in = 7

3in = 10

HS= 2.359

VS= 1.704

GS= 2.401

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.117	.997	.827
MINIMUM X	:	-1.242	-1.362	-1.098
MAXIMUM Y	:	.939	1.025	.981
MINIMUM Y	:	-.765	-.661	-.705
CENTROID X	:	.066	.186	.356
CENTROID Y	:	-.089	-.193	-.149
POA TO CENTROID in.	:	.111	.268	.386
MIN RADIUS	:	.387	.374	.466
MEAN RADIUS	:	.899	.820	.727
MAX RADIUS	:	1.425	1.407	1.106
HORIZONTAL SPREAD	:	2.359	2.359	1.925
VERTICAL SPREAD	:	1.704	1.686	1.686
EXTREME SPREAD	:	2.401	2.401	1.934
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8587555

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 8

HS= 2.972

VS= 1.876

GS= 2.996

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.214	1.019	1.100
MINIMUM X	:	-1.758	-1.003	-.922
MAXIMUM Y	:	1.253	1.240	.414
MINIMUM Y	:	-.623	-.636	-.481
CENTROID X	:	.006	.201	.120
CENTROID Y	:	-.024	-.011	-.166
POA TO CENTROID in.	:	.025	.202	.205
MIN RADIUS	:	.247	.072	.163
MEAN RADIUS	:	.867	.750	.650
MAX RADIUS	:	1.762	1.398	1.169
HORIZONTAL SPREAD	:	2.972	2.022	2.022
VERTICAL SPREAD	:	1.876	1.876	.895
EXTREME SPREAD	:	2.996	2.254	2.093
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	