

GT686 3563
Replaces
C6594535

Arms Services Repair & Estimate System

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

Repair Inquiry

Repair Number: RE00172756

Serial: C6594535 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 03/18/1991

Repairman:

Status:

Closed 8/10/2009 6:06:02 AM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: TRANSPORTATION OFFICER

TRANSPORTATION OFFICER

Address 1: USPFO FOR ARKANSAS BLDG 0318

USPFO FOR ARKANSAS BLDG 0318

Address 2: CAMP ROBINSON

CAMP ROBINSON

City: NORTH LITTLE ROCK

NORTH LITTLE ROCK

State: AR

Zip Code: 72139

Country: US

State: AR

Zip Code: 72139

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information:

Phone: NN

Fax:

Email:

Comments:

Received Condition:

Poor

Condition:

Notes:

CSR:

Notes:

Accessories Received:

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	-
A017	Scope Base	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagel

8/17/2009

12:47 PM

C&G

NUM

INS

SCAL

start

4 Micros...

Amazon.c...

3 Micros...

Arms Serv...

Part Searc...

NEW GUN ...

Adobe Acr...

12:47 PM

Serial Number:

C6594535

Model: M24 SWS



RE00172756

M-24
INSPECTION CHECKLIST - REPAIRS
CONTRACT #: W52H09-07-C-0207
ISSUED 10/1/2007

R & E NUMBER	172756			66863563
SERIAL NUMBER	C6594535			
LOG-IN DATE	8-10-09			

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	9-1-09	RTZ
505	RE-BARREL	9-4-09	RTZ
420	ASSEMBLE	9-4-09	RTZ
440	PROOF	9-4-09	S.P.D.
460	CHECK HEADSPACE	9-4-09	S.P.D.
470	DIS-ASSEMBLE GUN	9-4-09	S.P.D.
480	MAGNAFLUX	9-10-09	(D)
510	DRILL AND TAP	9-8-09	SP
500	ROLLMARK CALIBER	9-10-09	SP
520	GOFF BLAST BBL / REC	9-10-09	SP
530 & 540	APPLY COATINGS	9-1-09	SP
560	FINAL ASSEMBLY	9-18-09	RTZ
640	FUNCTION TEST AND	9-22-09	RTZ
650	TARGET	9-21-09	RP
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	9-21-09	S.P.D.
	A) HEADSPACE	9-22-09	LB
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS 2.46 2.49 2.49 2.45 2.44 9-22-09 TL	
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX 2.9 2.9 2.9 9-22-09 LB	
	G) SAFETY OFF FORCE	2 LBS FAIL 4.9 11.9 14.9 9-22-09 LB	
	I) FIRING PIN INDENT	.020 .023 .023 .024 9-24-09 FM	
690	PACK		

F006 REV 1/2009

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6863563.___0

FILE DATE AND TIME: 09/22/2009 07:10

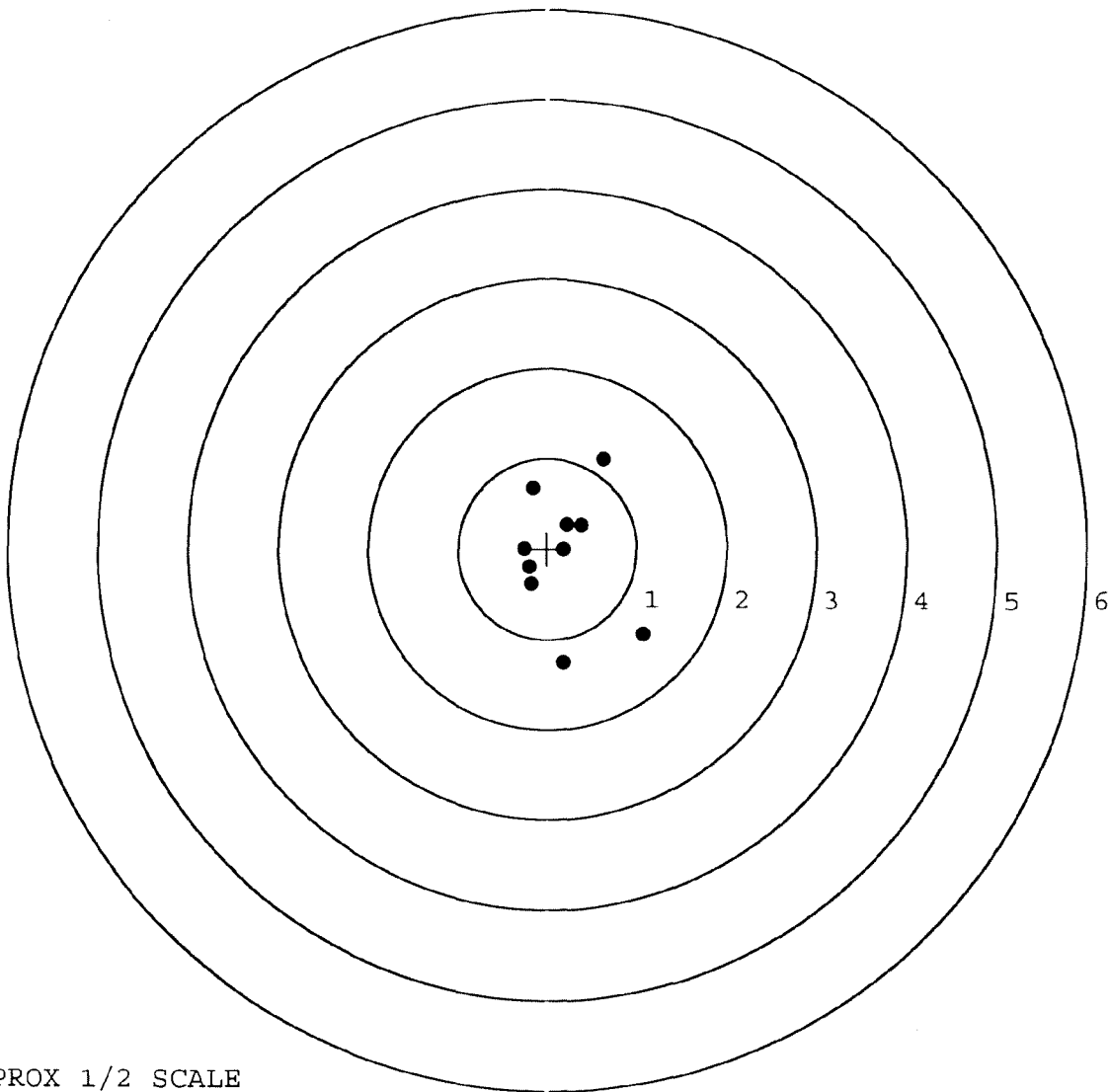
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.008
The Average Y Centroid of the Five Target Set:	-0.066
The Average Point of Impact of the Five Target Set:	0.066
The Average Mean Radius of the Five Target Set:	0.831
The Distance from POA to Centroid Target #1:	0.197
The Distance from Centroid Target #2 to Centroid Target #1:	0.171
The Distance from Centroid Target #3 to Centroid Target #1:	0.381
The Distance from Centroid Target #4 to Centroid Target #1:	0.345
The Distance from Centroid Target #5 to Centroid Target #1:	0.227

SERIAL NUMBER: G6863563. __0
TARGET NUMBER: 1
FILE DATE: 09/22/2009
FILE TIME: 07:10

POINT#	X	Y
1:	0.186	-1.260
2:	1.072	-0.945
3:	0.633	1.000
4:	-0.160	0.671
5:	0.217	0.274
6:	0.380	0.267
7:	-0.254	-0.005
8:	0.185	-0.008
9:	-0.182	-0.389
10:	-0.204	-0.202

X CENTROID: 0.187
Y CENTROID: -0.060
POA TO CENTROID: 0.197
HORZ SPREAD: 1.326
VERT SPREAD: 2.260
GROUP SPREAD: 2.032
MIN RADIUS: 0.052
MAX RADIUS: 1.252
MEAN RADIUS: 0.653
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

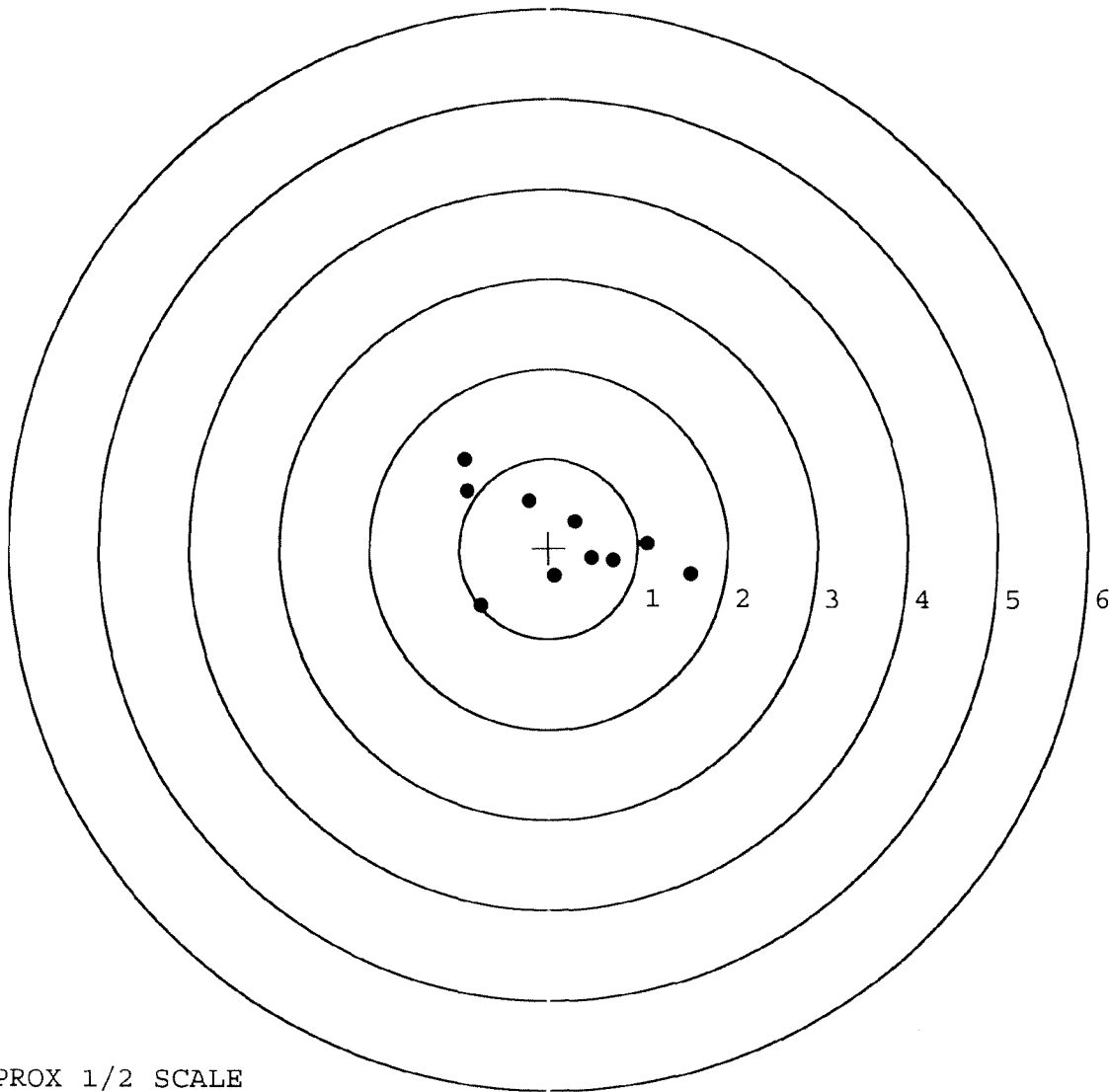


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863563. 0
TARGET NUMBER: 2
FILE DATE: 09/22/2009
FILE TIME: 07:10

POINT#	X	Y
1:	1.591	-0.284
2:	1.101	0.055
3:	-0.219	0.529
4:	-0.936	0.998
5:	-0.908	0.644
6:	-0.758	-0.636
7:	0.070	-0.311
8:	0.483	-0.108
9:	0.729	-0.134
10:	0.294	0.303

X CENTROID: 0.145
Y CENTROID: 0.106
POA TO CENTROID: 0.179
HORZ SPREAD: 2.527
VERT SPREAD: 1.634
GROUP SPREAD: 2.834
MIN RADIUS: 0.248
MAX RADIUS: 1.498
MEAN RADIUS: 0.847
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

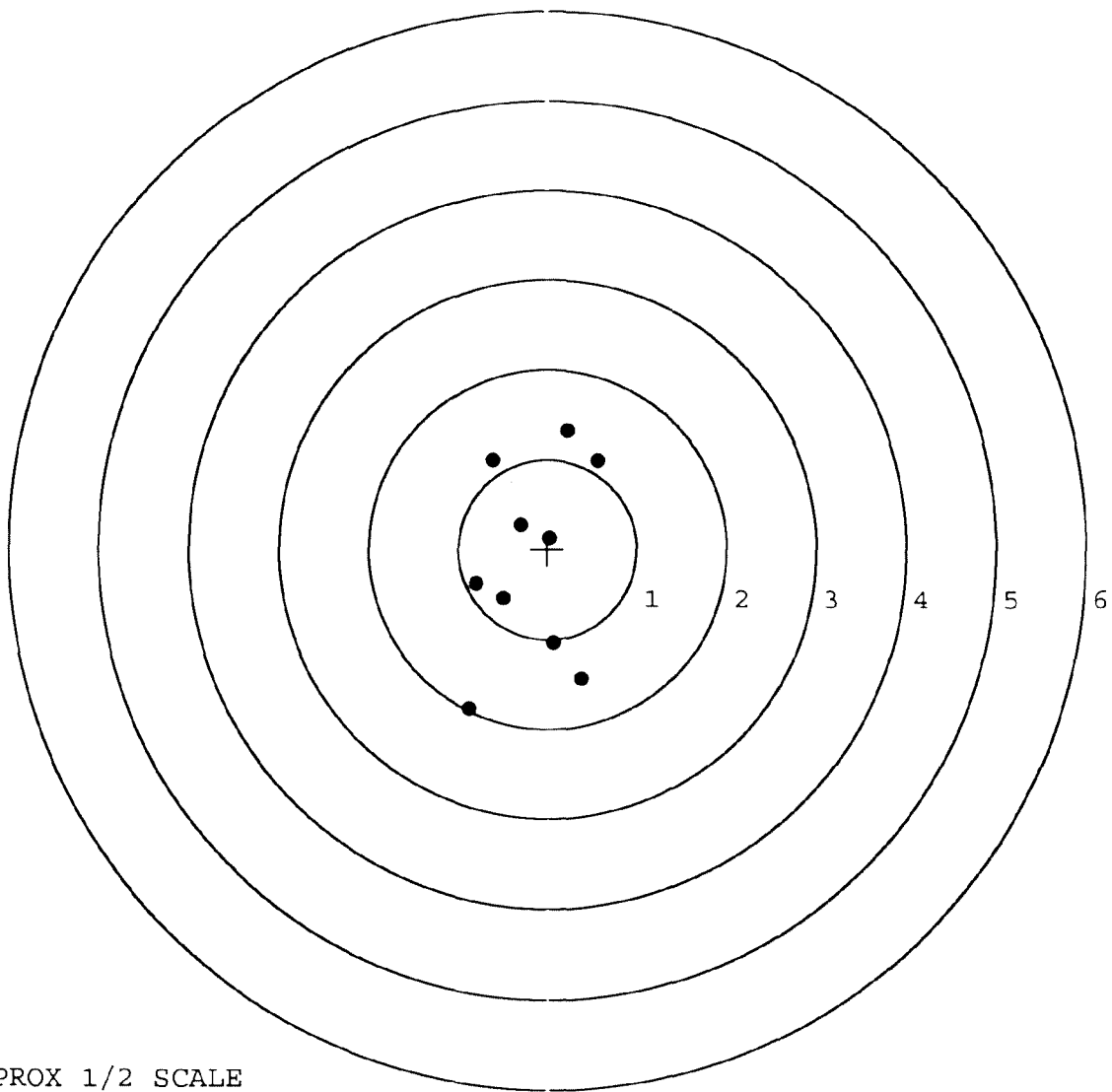


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863563. __0
TARGET NUMBER: 3
FILE DATE: 09/22/2009
FILE TIME: 07:10

POINT#	X	Y
1:	-0.882	-1.776
2:	0.382	-1.443
3:	-0.804	-0.382
4:	0.060	-1.042
5:	-0.609	0.994
6:	-0.494	-0.553
7:	0.569	0.991
8:	0.224	1.320
9:	-0.306	0.267
10:	0.028	0.125

X CENTROID: -0.183
Y CENTROID: -0.150
POA TO CENTROID: 0.237
HORZ SPREAD: 1.451
VERT SPREAD: 3.096
GROUP SPREAD: 3.288
MIN RADIUS: 0.347
MAX RADIUS: 1.770
MEAN RADIUS: 1.017
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 8

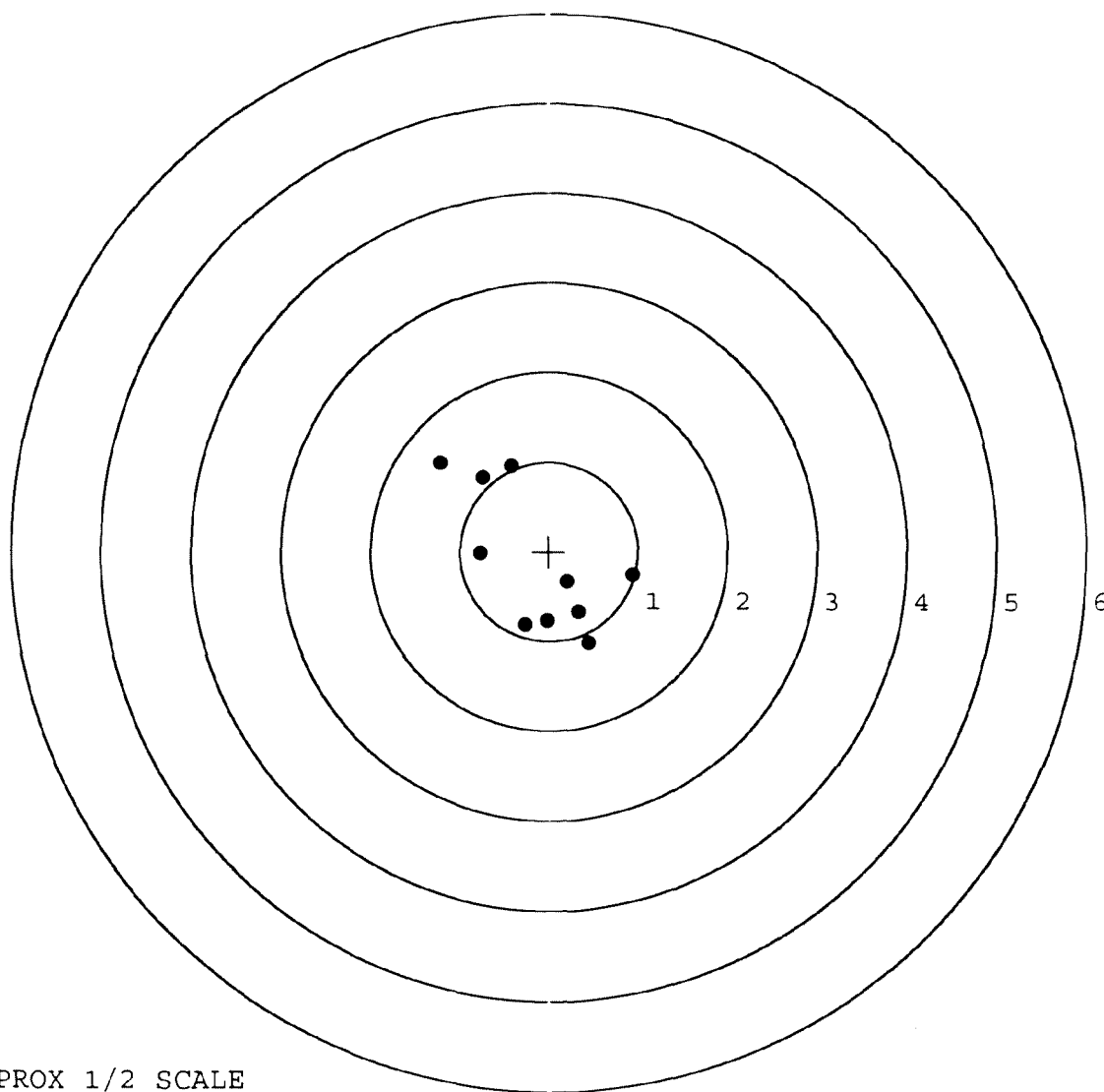


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863563. __0
TARGET NUMBER: 4
FILE DATE: 09/22/2009
FILE TIME: 07:10

POINT#	X	Y
1:	-1.215	0.991
2:	-0.424	0.955
3:	-0.771	-0.018
4:	-0.744	0.828
5:	0.944	-0.261
6:	0.441	-1.024
7:	-0.023	-0.778
8:	-0.271	-0.825
9:	0.202	-0.337
10:	0.331	-0.679

X CENTROID: -0.153
Y CENTROID: -0.115
POA TO CENTROID: 0.191
HORZ SPREAD: 2.159
VERT SPREAD: 2.015
GROUP SPREAD: 2.608
MIN RADIUS: 0.419
MAX RADIUS: 1.533
MEAN RADIUS: 0.913
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 9



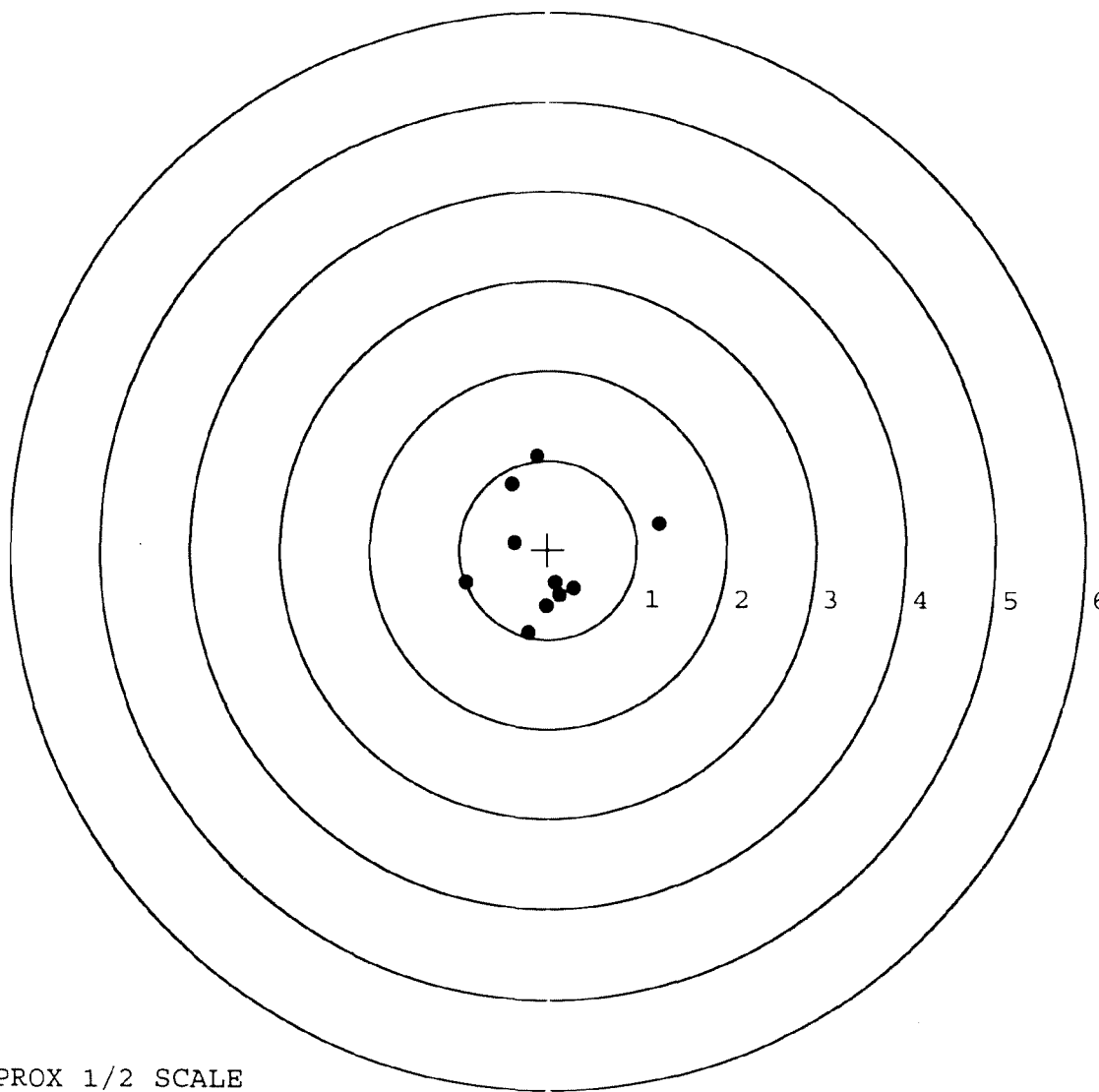
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6863563. __0
TARGET NUMBER: 5
FILE DATE: 09/22/2009
FILE TIME: 07:10

X CENTROID: -0.034
Y CENTROID: -0.111
POA TO CENTROID: 0.116
HORZ SPREAD: 2.164
VERT SPREAD: 1.979
GROUP SPREAD: 2.262
MIN RADIUS: 0.285
MAX RADIUS: 1.336
MEAN RADIUS: 0.728

POINT#	X	Y
1:	1.242	0.287
2:	-0.121	1.051
3:	-0.412	0.730
4:	-0.922	-0.372
5:	-0.381	0.069
6:	0.084	-0.371
7:	-0.020	-0.633
8:	-0.225	-0.928
9:	0.288	-0.439
10:	0.132	-0.508

IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SWS TRIGGER PULL TEST

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

SERIAL NO. C6594535
DATE 12-21-94
TESTER BMM

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.53	2.44	2.60	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.46	2.56	2.58	
PULL #3	2.48	2.51	2.60	
PULL #4	2.49	2.50	2.58	
PULL #5	2.53	2.50	2.54	
TOTAL	12.49	12.51	12.90	
AVG.	2.49	2.50	2.58	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.00	3.19		
PULL #2	3.15	3.13		
PULL #3	3.15	3.14		
PULL #4	3.26	3.17		
PULL #5	3.08	3.17		
TOTAL	15.64	15.80		
AVG.	3.12	3.16		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.01	3.93		4.16
PULL #2	4.25	4.11		4.16
PULL #3	4.13	4.12		4.12
PULL #4	4.28	4.12		4.15
PULL #5	4.23	4.15		4.15
TOTAL	20.90	20.43		20.74
AVG.	4.18	4.08		4.14

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6594535
17 Apr 1900

CENTROIDAL DISTANCES

0 TO	1	.357494
1 TO	2	.518661
1 TO	3	.197975
1 TO	4	.383897
1 TO	5	.520634

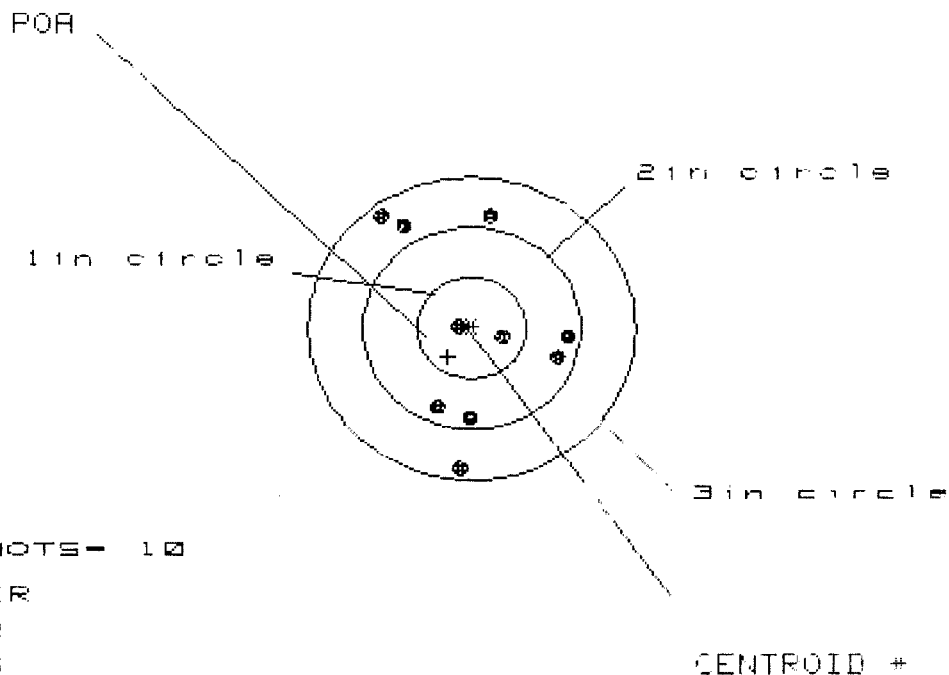
$\bar{x}$ ----- POA

THE AVERAGE CENTROIDAL DISTANCE FOR THIS RIFLE IS: .182
THE AVERAGE CENTROIDAL DISTANCE FOR THIS RIFLE IS: -.0004
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .182
THE AMR FOR THIS RIFLE IS: .9232

17 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8594585

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 2

2in = 5

3in = 10

HS= 1.724

VS= 2.524

GS= 0.

PATTERN #

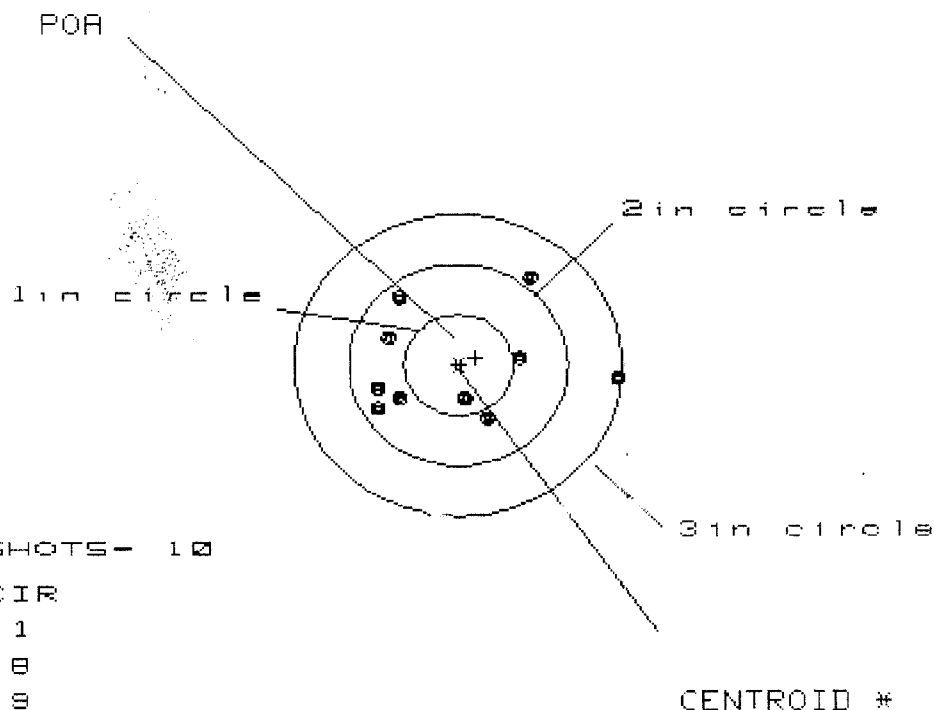
1

SHOTS BEST	10	9	8
MAXIMUM	.854	.761	.734
MINIMUM	-.866	-.718	-.746
MAXIMUM Y	1.155	1.268	1.113
MINIMUM Y	-1.369	-1.241	-.886
CENTROID X	.221	.318	.345
CENTROID Y	.281	.153	.308
POA TO CENTROID in.	.358	.353	.463
MIN RADIUS	.159	.237	.228
MEAN RADIUS	.902	.820	.764
MAX RADIUS	1.443	1.359	1.246
HORIZONTAL SPREAD	1.724	1.479	1.479
VERTICAL SPREAD	2.524	2.509	1.999
EXTREME SPREAD	2.630	2.524	2.005
NUMBER IN ONE INCH CIRCLE	=	2	
NUMBER IN TWO INCH CIRCLE	=	6	
NUMBER IN THREE INCH CIRCLE	=	10	

17 Apr 1900

FILE:/PATTERNING/CENTERFIRE_PATT/C6594535

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 1

2in = 8

3in = 9

HS= 2.245

VS= 1.473

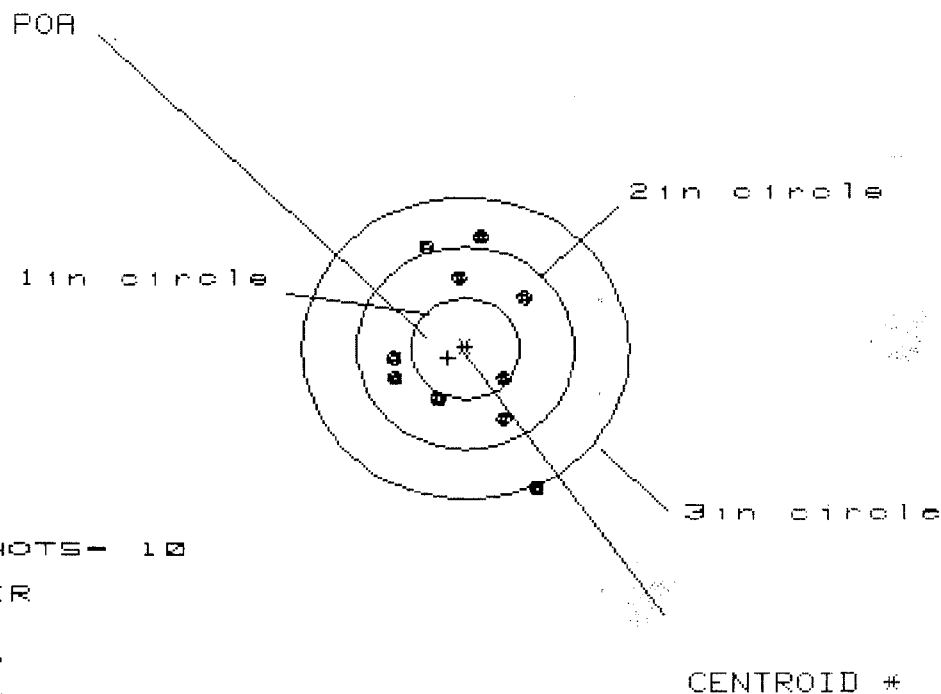
GS= 2.276

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.502	.873	.810
MINIMUM X	:	-.744	-.577	-.468
MAXIMUM Y	:	.899	.891	.815
MINIMUM Y	:	-.574	-.582	-.471
CENTROID X	:	-.159	-.326	-.435
CENTROID Y	:	-.072	-.064	-.175
POA TO CENTROID in.	:	.175	.333	.469
MIN RADIUS	:	.342	.430	.359
MEAN RADIUS	:	.796	.694	.592
MAX RADIUS	:	1.504	1.247	.849
HORIZONTAL SPREAD	:	2.245	1.450	1.278
VERTICAL SPREAD	:	1.473	1.473	1.286
EXTREME SPREAD	:	2.276	1.983	1.509
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6594535

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 7

3in = 9

HS= 1.343

VS= 2.445

GS= 2.560

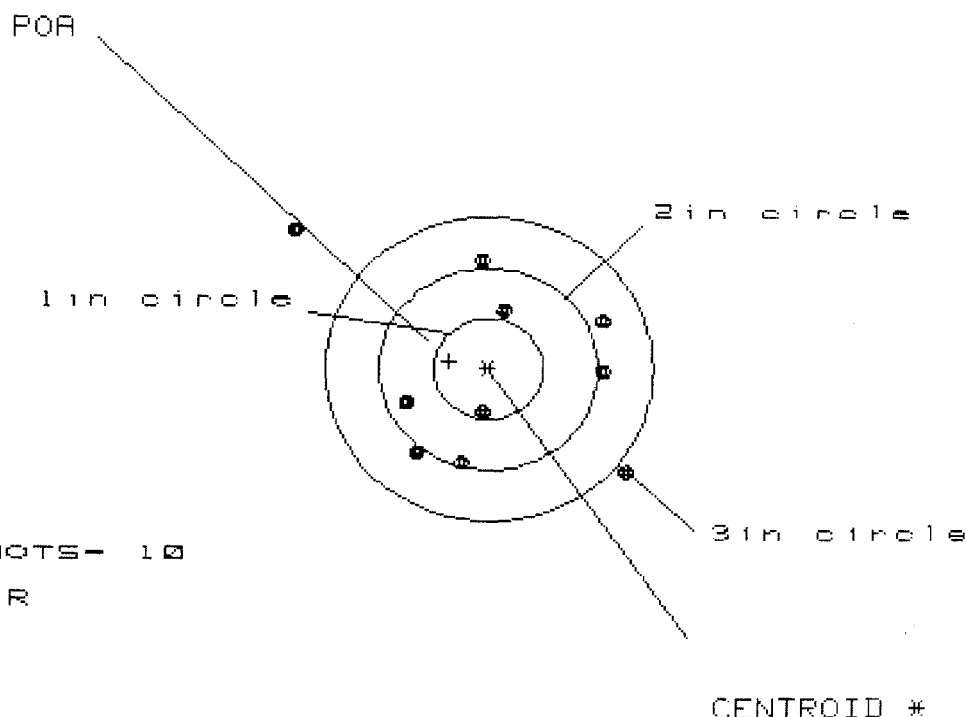
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.671	.609	.632
MINIMUM X	:	-.672	-.598	-.575
MAXIMUM Y	:	1.101	.952	.956
MINIMUM Y	:	-1.344	-.890	-.771
CENTROID X	:	.156	.082	.059
CENTROID Y	:	.094	.243	.124
POA TO CENTROID in.	:	.182	.257	.137
MIN RADIUS	:	.493	.538	.535
MEAN RADIUS	:	.838	.756	.716
MAX RADIUS	:	1.502	.976	.999
HORIZONTAL SPREAD	:	1.343	1.207	1.207
VERTICAL SPREAD	:	2.445	1.842	1.727
EXTREME SPREAD	:	2.560	1.869	1.869
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

17 Apr 1900

FILE:/PATTERNING/CENTERFIRE_PATT/C6594535

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1 in - 1

2 in - 4

3 in - 8

HS- 2.959

VS- 2.375

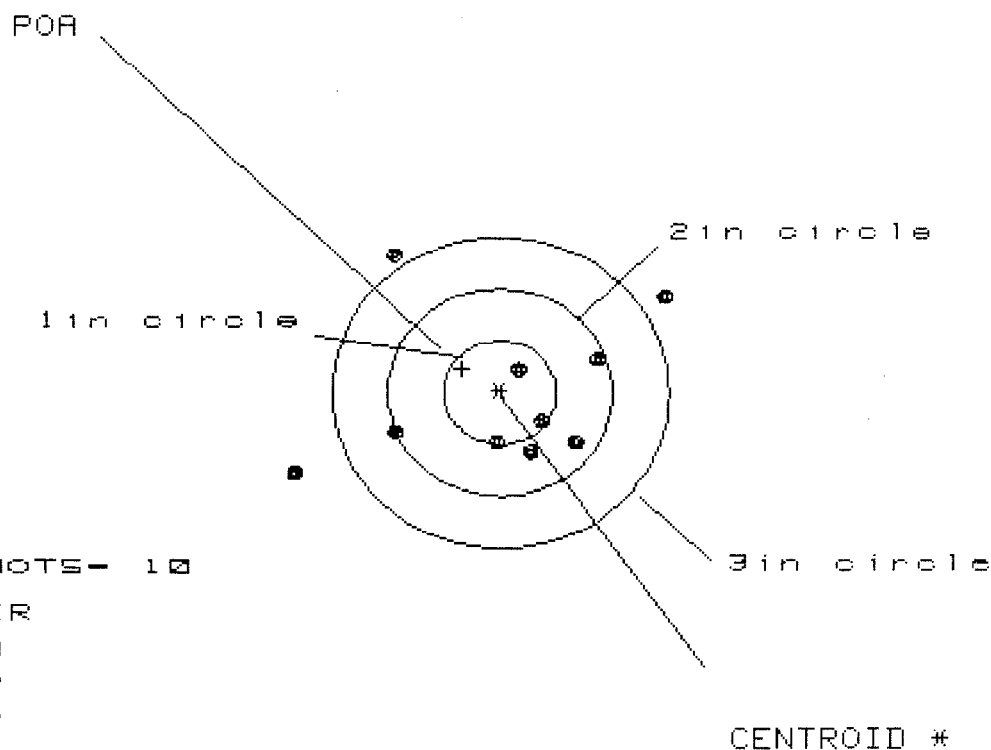
GS- 3.794

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.228	1.036	1.013
MINIMUM X	:	-1.731	-.902	-.773
MAXIMUM Y	:	1.375	1.273	1.167
MINIMUM Y	:	-1.000	-.847	-.852
CENTROID X	:	.357	.549	.420
CENTROID Y	:	-.078	-.231	-.125
POA TO CENTROID in.	:	.365	.596	.438
MIN RADIUS	:	.396	.329	.361
MEAN RADIUS	:	1.087	.943	.881
MAX RADIUS	:	2.211	1.338	1.174
HORIZONTAL SPREAD	:	2.959	1.938	1.786
VERTICAL SPREAD	:	2.375	2.120	2.019
EXTREME SPREAD	:	3.794	2.486	2.151
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	

17 Apr 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6594535

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 7

HS= 3.303

VS= 2.129

GS= 3.723

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.453	1.247	.831
MINIMUM X	:	-1.850	-1.144	-.988
MAXIMUM Y	:	1.361	1.276	1.384
MINIMUM Y	:	-.768	-.659	-.551
CENTROID X	:	.335	.541	.385
CENTROID Y	:	-.227	-.142	-.250
POA TO CENTROID in.	:	.405	.559	.459
MIN RADIUS	:	.279	.182	.282
MEAN RADIUS	:	.993	.854	.760
MAX RADIUS	:	2.003	1.711	1.698
HORIZONTAL SPREAD	:	3.303	2.391	1.819
VERTICAL SPREAD	:	2.129	1.935	1.935
EXTREME SPREAD	:	3.723	2.713	2.419
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		7	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6594535

#	OP. NAME	READINGS	DATE	INITIAL
5 & 0	Assemble Action and Stock			
3	Proof			
7	Check Headspace			
0	Dis-assemble Gun			
2	Magnaflux Barrel Action			
	Magnaflux Bolt			
5	Rollmark Caliber			
7	Drill and Tap Sight Holes			
8	Polish Barrel			
0	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
5	Final Assembly A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	5	4 1/2	4 1/2	6/24/96	CU
	G) Safety Off Force	2 1/2	2 1/2	2 1/4	6/24/96	CU
	H) Trigger Pull Test & Retainability					
	I) Firing Pin Indent					
	J) Assemble Stock					
	K) Assemble Swivel Studs					
	L) Attach Front and Rear Sight Assemblies					
	M) Iron Sight Alignment					
	N) Detach Front & Rear Sights & place in numbered container					
	O) Attach Scope to Rifle					
	P) Detach & Attach Scope 20 Times					
640	Gallery Target & Test					
	A) Time					
	B) Malfunctions					
	C) Pierced Primers					
	D) Optical Clarity of Scope					
645	Inspect for Live Ammo					
655	Final Inspection					
	A) Headspace					
	B) Trigger Pull	2.74	2.74	2.76	2.70	2.67
	C) Function					
660	Pack					

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

Remington®

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

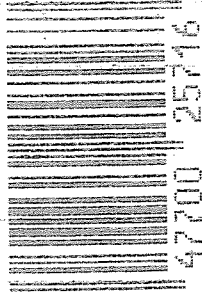
MODEL 700™ N24

SERIAL NO. 06594535

ORDER NO. 5716

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

UPC



5716 06594535

INTERCHANGEABILITY

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # *C 6594535*

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	10/30/90	KH
600	Proof		10/30/90	KH
607	Check Headspace		10/30/90	KH
610	Dis-assemble Gun		10/30/90	KH
612	Magnaflux Barrel Action		11/1/90	KCR
	Magnaflux Bolt		11/1/90	KCR
615	Rollmark Caliber		11/1/90	GS
617	Drill and Tap Sight Holes		11/6/90	FB
618	Polish Barrel <i>AB</i>		11/7/90	WAB
620	Apply Coatings (Barrel Action)		11-26-90	TH
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		1/17/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		1/17/91	KS
	C) Inspect Ejector Hole for Chamfer		1/17/91	KS
	D) Oil Firing Pin Ass'y		1/17/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		1/21/91	JS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			1/22/91	WB
	G) Safety Off Force	3 1/4	3 1/4	3 1/4			1/22/91	WB
	H) Trigger Pull Test & Retainability						1/21/91	JU
	I) Firing Pin Indent	.021	.0213	.0213			1/22/91	WB
	J) Assemble Stock						1/23/91	KS
	K) Assemble Swivel Studs						2-4-91	AC
	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	KS
	A) Time							KS
	B) Malfunctions							KS
	C) Pierced Primers							KS
	D) Optical Clarity of Scope							KS
645	Inspect for Live Ammo						1/23/91	KS
655	Final Inspection							
	A) Headspace						2-4-91	AC
	B) Trigger Pull	2.48	2.38	2.36	2.39	2.44	2-1-91	JU
	C) Function						2-4-91	AC
660	Pack						3-15-91	DH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6544535

DATE 1/21/91

TESTER JU

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.49	2.27	2.45	2.18	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.40	2.32	2.49	2.38	
PULL #3	2.47	2.28	2.50	2.36	
PULL #4	2.46	2.34	2.46	2.39	
PULL #5	2.23	2.31	2.43	2.44	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.36	3.24		
PULL #2	3.34	3.28		
PULL #3	3.32	3.24		
PULL #4	3.22	3.17		
PULL #5	3.25	3.23		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.16	4.45		4.48
PULL #2	4.19	4.47		4.42
PULL #3	4.25	4.38		4.39
PULL #4	4.20	4.33		4.37
PULL #5	4.17	4.43		4.33
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06594535
24 Jan 1991

CENTROIDAL DISTANCES

0 TO 1	.290801
1 TO 2	.211436
1 TO 3	.0776981
1 TO 4	.13537
1 TO 5	.197041

5

-----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1716
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0914
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .194424

THE AWR FOR THIS RIFLE IS: 1.037

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08534535

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 0

2in = 1

3in = 7

HS= 3.626

VS= 2.599

GS= 3.788

CENTROID *

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.167	1.762	1.611
MINIMUM X	:	-1.459	-1.219	-1.370
MAXIMUM Y	:	1.412	1.280	1.193
MINIMUM Y	:	-1.187	-1.295	-1.382
CENTROID X	:	.279	.039	.190
CENTROID Y	:	-.082	.050	.137
POA TO CENTROID in.	:	.291	.063	.234
MIN RADIUS	:	.933	.787	.705
MEAN RADIUS	:	1.444	1.275	1.252
MAX RADIUS	:	2.471	1.784	1.652
HORIZONTAL SPREAD	:	3.626	2.981	2.981
VERTICAL SPREAD	:	2.599	2.575	2.575
EXTREME SPREAD	:	3.788	3.002	2.982
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		1	
NUMBER IN THREE INCH CIRCLE	=		7	

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8594535

CENTERFIRE PATTERNS

2

POB

1in circle

2in circle

3in circle

OF SHOTS = 10

IN CIR

1in = 0

2in = 7

3in = 9

HS = 1.732

VS = 2.649

ES = 2.705

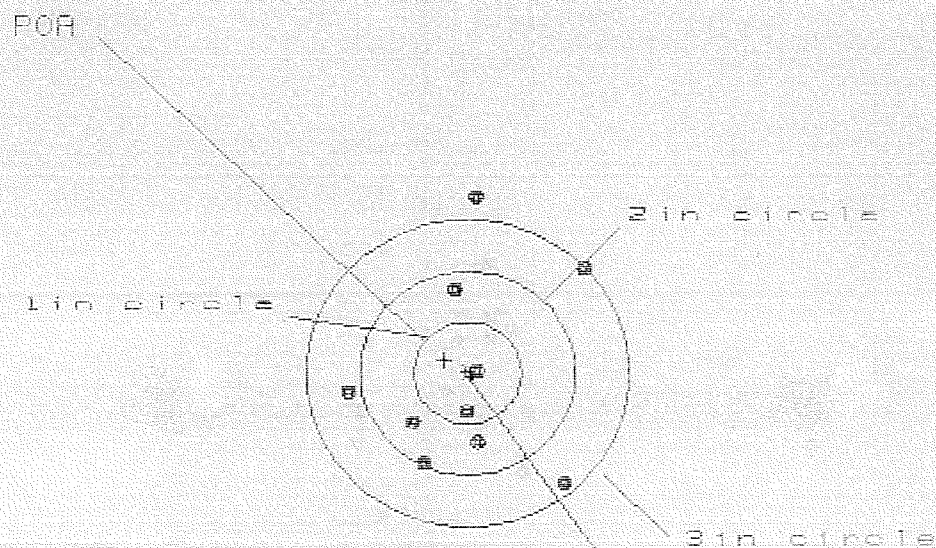
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.754	.753	.682
MINIMUM X	:	-.978	-.979	-1.050
MAXIMUM Y	:	1.089	.916	.855
MINIMUM Y	:	-1.560	-.874	-.760
CENTROID X	:	.070	.071	.142
CENTROID Y	:	-.114	.059	-.055
POB TO CENTROID in.	:	.134	.093	.152
MIN RADIUS	:	.711	.558	.672
MEAN RADIUS	:	.955	.875	.938
MAX RADIUS	:	1.560	1.075	1.185
HORIZONTAL SPREAD	:	1.732	1.732	1.732
VERTICAL SPREAD	:	2.649	1.790	1.615
EXTREME SPREAD	:	2.705	2.078	2.067
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06594535

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 2

2in = 6

3in = 9

HS= 2.221

VS= 2.839

GS= 2.969

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.104	1.111	1.072
MINIMUM X	:	-1.117	-1.110	-1.972
MAXIMUM Y	:	1.740	1.168	1.146
MINIMUM Y	:	-1.099	-0.905	-0.759
CENTROID X	:	.213	.206	.067
CENTROID Y	:	-.123	-.317	-.463
POA TO CENTROID IN.	:	.246	.378	.468
MIN RADIUS	:	.091	.137	.156
MEAN RADIUS	:	.935	.807	.678
MAX RADIUS	:	1.741	1.612	1.313
HORIZONTAL SPREAD	:	2.221	2.221	2.043
VERTICAL SPREAD	:	2.839	2.073	1.905
EXTREME SPREAD	:	2.969	2.487	2.255
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			9	

24 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8594535

CENTERFIRE PATTERNS

4

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 1.514

VS= 2.473

GS= 2.684

PATTERN #

:

4

SHOTS (BEST OF)

:

10

9

8

MAXIMUM X

:

.511

.426

.424

MINIMUM X

:

-1.003

-1.088

-1.035

MAXIMUM Y

:

1.090

.936

.787

MINIMUM Y

:

-1.383

-1.196

-.747

CENTROID X

:

.177

.262

.209

CENTROID Y

:

-.171

-.017

.132

POA TO CENTROID in.

:

.246

.263

.247

MIN RADIUS

:

.315

.205

.090

MEAN RADIUS

:

.775

.630

.516

MAX RADIUS

:

1.582

1.269

1.277

HORIZONTAL SPREAD

:

1.514

1.514

1.459

VERTICAL SPREAD

:

2.473

2.132

1.534

EXTREME SPREAD

:

2.684

2.151

1.964

NUMBER IN ONE INCH CIRCLE =

3

NUMBER IN TWO INCH CIRCLE =

6

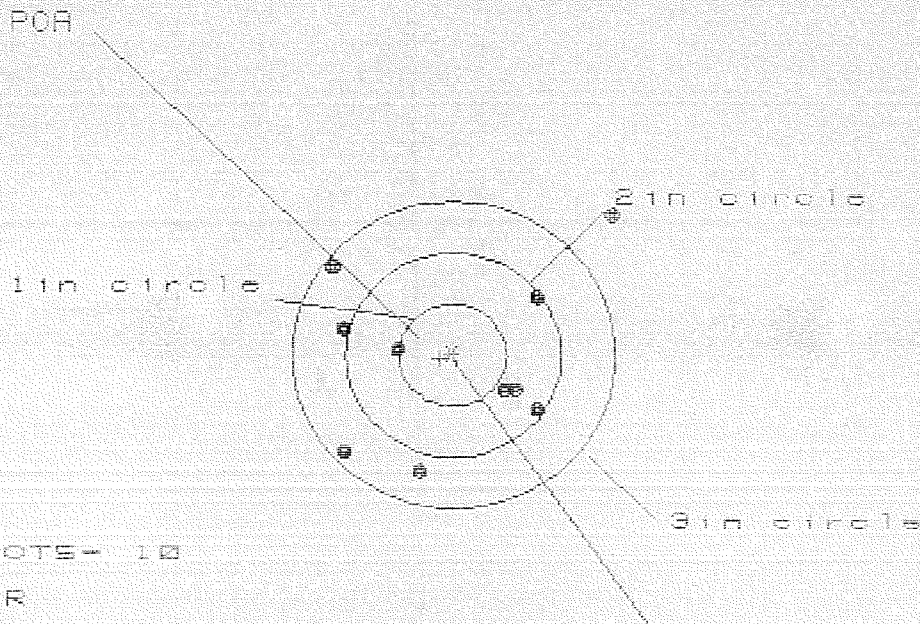
NUMBER IN THREE INCH CIRCLE =

9

24 Jan 1991

FILE: /PATTERNING/CENTERFIRE_PATT/06534535

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 0

2in = 5

3in = 9

HS= 2.585

VS= 2.461

GS= 3.396

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.478	.958	.840
MINIMUM X	:	-1.107	-.943	-1.012
MAXIMUM Y	:	1.361	1.067	.846
MINIMUM Y	:	-1.100	-.949	-.815
CENTROID X	:	.119	-.045	.073
CENTROID Y	:	.033	-.118	-.252
POA TO CENTROID in.	:	.124	.126	.262
MIN RADIUS	:	.558	.459	.511
MEAN RADIUS	:	1.075	.955	.874
MAX RADIUS	:	2.009	1.424	1.192
HORIZONTAL SPREAD	:	2.585	1.901	1.852
VERTICAL SPREAD	:	2.461	2.016	1.661
EXTREME SPREAD	:	3.396	2.358	2.358
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06594535
12 Mar 1991

CENTROIDAL DISTANCES

0 TO 1	.18868
1 TO 2	.366708
1 TO 3	.0482597
1 TO 4	.380454
1 TO 5	.0847172

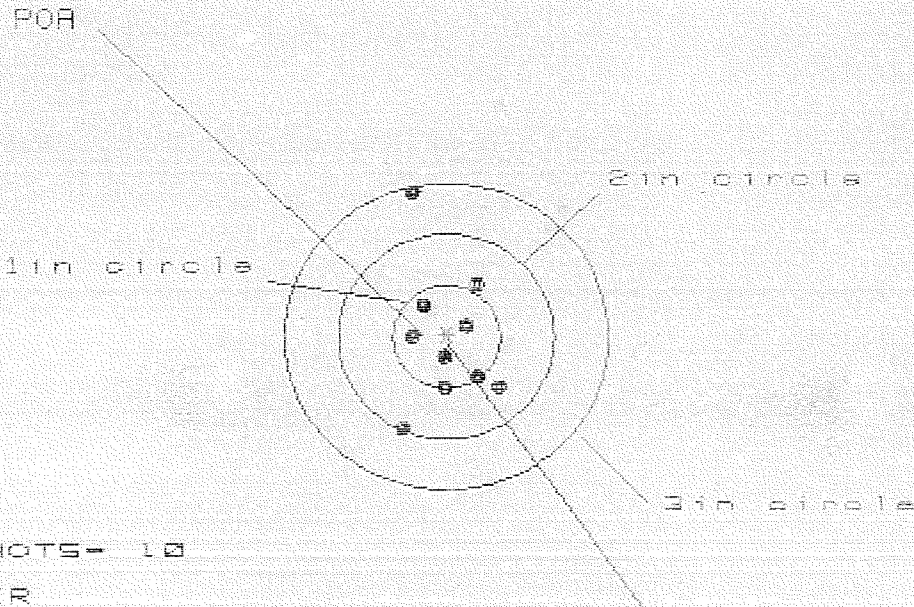
$\frac{2}{\pi}$ $\leftarrow$ POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .095
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1526
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .179755
THE AMR FOR THIS RIFLE IS: .9314

12 Mar 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6584535.1

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 6

2in = 9

3in = 10

HS= .992

VS= 2.246

GS= 2.248

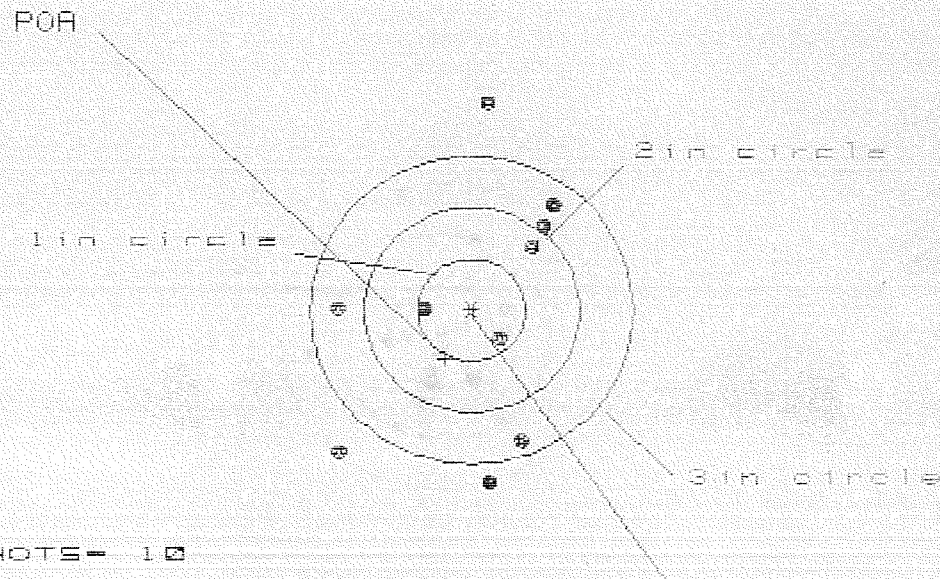
CENTROID *

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.532	.492	.430
MINIMUM X	:	-.460	-.500	-.370
MAXIMUM Y	:	1.380	.661	.572
MINIMUM Y	:	-.866	-.712	-.489
CENTROID X	:	.016	.056	.118
CENTROID Y	:	.188	.034	.123
POA TO CENTROID in.	:	.188	.066	.171
MIN RADIUS	:	.151	.019	.118
MEAN RADIUS	:	.569	.448	.398
MAX RADIUS	:	1.425	.870	.615
HORIZONTAL SPREAD	:	.992	.992	.800
VERTICAL SPREAD	:	2.246	1.373	.981
EXTREME SPREAD	:	2.248	1.584	1.108
NUMBER IN ONE INCH CIRCLE	=		6	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

12 Mar 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06534535.1

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 3

3 in = 7

HS = 2.000

VS = 3.656

GS = 3.657

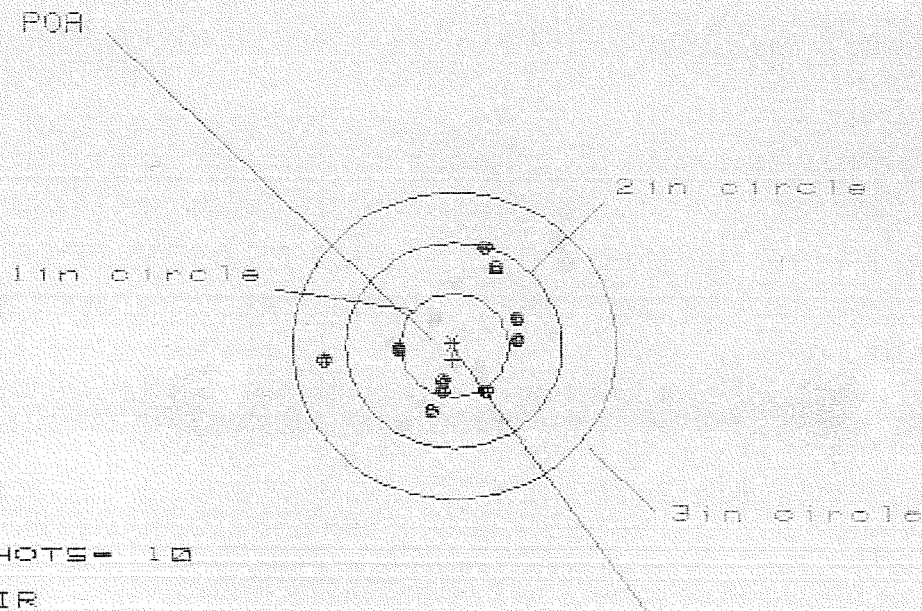
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.789	.907	.647
MINIMUM X	:	-1.291	-1.273	-1.415
MAXIMUM Y	:	2.004	1.225	1.094
MINIMUM Y	:	-1.652	-1.430	-1.571
CENTROID X	:	.243	.225	.385
CENTROID Y	:	.476	.254	.395
POA TO CENTROID in.	:	.535	.339	.552
MIN RADIUS	:	.378	.310	.219
MEAN RADIUS	:	1.217	1.128	1.023
MAX RADIUS	:	2.010	1.704	1.571
HORIZONTAL SPREAD	:	2.000	2.000	2.062
VERTICAL SPREAD	:	3.656	2.655	2.655
EXTREME SPREAD	:	3.657	3.144	2.732
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

(2 Mar 1991)

FILE: \PATTERNING\CENTERFIRE_PATT\CB594595.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 2

2in = 9

3in = 10

HS= 1.861

VS= 1.586

GS= 1.916

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.612	.473	.486
MINIMUM X	:	-1.249	-.656	-.643
MAXIMUM Y	:	.949	.930	.826
MINIMUM Y	:	-.637	-.656	-.540
CENTROID X	:	.011	.150	.137
CENTROID Y	:	.140	.159	.043
POA TO CENTROID in.	:	.140	.219	.143
MIN RADIUS	:	.331	.415	.320
MEAN RADIUS	:	.682	.607	.542
MAX RADIUS	:	1.261	.935	.861
HORIZONTAL SPREAD	:	1.861	1.129	1.129
VERTICAL SPREAD	:	1.586	1.586	1.366
EXTREME SPREAD	:	1.916	1.638	1.467
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

12 Mar 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6534535.1

CENTERFIRE PATTERNS

4

POA

1in circle

2in circle

3in circle

CENTROID +

OF SHOTS= 10

IN CIR

1in = 2

2in = 8

3in = 9

HS= 1.636

VS= 3.769

GS= 3.771

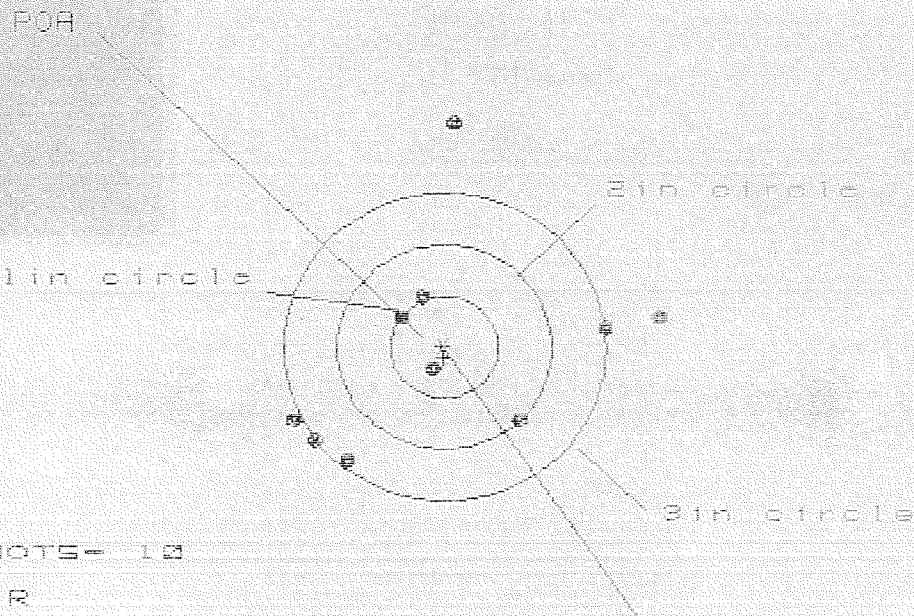
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.847	.927	.891
MINIMUM X	:	-.789	-.709	-.593
MAXIMUM Y	:	1.145	.854	.785
MINIMUM Y	:	-2.624	-.699	-.593
CENTROID X	:	.200	.120	.004
CENTROID Y	:	-.145	.146	.040
POA TO CENTROID IN.	:	.247	.189	.040
MIN RADIUS	:	.130	.209	.247
MEAN RADIUS	:	.931	.698	.608
MAX RADIUS	:	2.722	1.260	.940
HORIZONTAL SPREAD	:	1.636	1.636	1.484
VERTICAL SPREAD	:	3.769	1.553	1.378
EXTREME SPREAD	:	3.771	2.168	1.627
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

12 Mar 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6534535.1

CENTERFIRE PATTERNS

5



OF SHOTS- 10

IN CIR

1in = 1

2in = 4

3in = 5

HS= 3.395

VS= 3.353

GS= 3.526

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.970	1.983	1.773
MINIMUM X	:	-1.425	-1.412	-1.164
MAXIMUM Y	:	2.240	.774	.839
MINIMUM Y	:	-1.113	-.864	-.799
CENTROID X	:	.005	-.008	-.256
CENTROID Y	:	.104	-.145	-.210
POA TO CENTROID IN.	:	.104	.145	.331
MIN RADIUS	:	.217	.153	.192
MEAN RADIUS	:	1.258	1.136	.992
MAX RADIUS	:	2.243	2.050	1.850
HORIZONTAL SPREAD	:	3.395	3.395	2.937
VERTICAL SPREAD	:	3.353	1.638	1.638
EXTREME SPREAD	:	3.526	3.526	3.070
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		5	