

C6523305

MODEL 700TM M24

Model **SWS** TM

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 CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00103098** Serial: C6523305 Model: M24 SWS Center Fire Caliber: 7.62 NATO Produced: 12/18/1990 Repairman: Status: Closed 11/1/2005 3:10:17 PM

Verify Repair: [REDACTED]

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **JERRY NELSON STTD** **JERRY NELSON STTD**

Address 1: **1401 ARTILLERY CIRCLE** **1401 ARTILLERY CIRCLE**

Address 2: **ATTN SUPPLY BLDG 978** **ATTN SUPPLY BLDG 978** PO Box: **PO Box**

City: **FORT LEONARD WOOD** **FORT LEONARD WOOD**

State: **MO** Zip Code: **65473** Country: **US** State: **MO** Zip Code: **65473** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information

Phone: **800-243-9700**

Fax:

Email:

Comments:

Received Condition

Fair

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A009	Soft Case	1
A017	Scope Base	1
A045	Bi Pod	1
A057	Frt and Rear Sgt Base	1

Repair Search Refresh Close

11/2/2005 7:22 AM CAPS NUM INS SCPL

start 2 5 3

Serial Number: **C6523305**

Model: **M24 SWS**



RE00103098

Remington®

Factory Repair Instructions

(NOTE: Please print and complete this form, and then include it with your firearm.)

Model Number: <u>M24A1</u>		Serial Number: <u>C 6523305</u>	
Are you the original owner?: ☒ YES ☐ NO			
Name: <u>USAMPS-STTO (JERRY NELSON)</u>		Date of Purchase: <u>UNKNOWN</u>	
Address (no PO Boxes): <u>1401 ARTILLERY CR.</u> <u>BLDG 978</u>			
City: <u>FT. LEONARD WOOD</u>		State: <u>MO</u>	Zip: <u>65473</u>
Phone (Daytime): <u>573-596-0636</u>		Fax: <u>573-596-0747</u>	
E-mail Address: <u>nelsonje@wood.army.mil</u>			
☐ I would like to receive future e-mail updates from Remington.			
Please describe your problem and date of occurrence:			
<u>BROKEN BOLT</u>			
Ammunition Information:			
Manufacturer: <u>MILITARY (LAKECITY)</u>		Type: <u>M118 MATCH BALL</u>	
Other (i.e. bullet weight/type, shot size, powder):			
Handload Information:			
Powder Used:		Powder Weight:	
Case/Hull Used:		Primer Used:	
Bullet Type/Shot Size:		Reloader Used:	
Firearms Care (Cleaning and Lubrication):			
Brand of cleaning solution used:			
How often do you clean the bore? (Months or Number of rounds)			
How often do you clean the action? (Months or Number of rounds)			
How often do you clean the trigger assembly? (Months or Number of rounds)			
Brand of lubricant used:			
How often do you lubricate the bore? (Months or Number of rounds)			
How often do you lubricate the action? (Months or Number of rounds)			
How often do you lubricate the trigger assembly? (Months or Number of rounds)			
Have you reviewed the cleaning and maintenance recommendations on our web site or in our owners manual? ☐ YES ☐ NO			

Comments:

When was the last time that your firearm was serviced by a Remington authorized repairman/gunsmith?

What were the services performed?

Ship your **INSURED** firearm by either **UPS** or **Parcel Post** to:

Remington Arms Co., Inc.
Attn: Arms Service Division
14 Hoefler Avenue
Ilion, NY 13357

⚠ **WARNING:** DO NOT SEND LIVE OR SPENT SHELLS IN YOUR FIREARM OR IN THE SAME BOX WITH THE FIREARM. **THIS IS A VIOLATION OF FEDERAL LAW.** IF YOU FEEL YOU MUST SEND SPENT SHELLS PLEASE SEND THEM IN A SEPARATE PACKAGE AND INCLUDE NAME, ADDRESS (WITH ZIP CODE), TELEPHONE AND MODEL AND SERIAL NUMBER OF YOUR FIREARM.

- :: Record the serial number of your firearm before sending it.
- :: Pack your firearm for safety and to prevent further damage in shipping and handling. Preferably, ship in a firearm box. (Note: Original boxes may not be returned.)
- :: Remove all accessories from your firearm to prevent loss or damage.
- :: Provide a return address on both the outside and inside the box. Shipments without a proper return address will be refused.
- :: Ship your **INSURED** firearm by either **UPS** or **Parcel Post**. Remington is not responsible for damage or loss during shipment, so you may elect to purchase insurance from your carrier.

Charge repairs will be processed using the following guidelines:

:: Repairs \$75.00 and under will be completed and returned to you C.O.D. (To avoid C.O.D. Charges, please include your credit card number and expiration date with your gun)

:: For Repairs over \$75.00, you will receive a written estimate detailing the nature of the repair, applicable taxes and shipping. You will have 30 days to approve the repair estimate. Repairs can be paid by check, money order, or credit card (American Express, Discover, MasterCard, or VISA). If you wish, you can expedite repairs over \$75.00 by setting a pre-authorized amount that can be billed to your credit card.

B8X1

MAINTENANCE REQUEST For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG				PAGE NO	NO OF PAGES	REQUIREMENT CONTROL SYMBOL CSGLD-1047(R1)					
SECTION I - CUSTOMER DATA				SECTION II - MAINTENANCE ACTIVITY DATA							
1a. UIC CUSTOMER WAYLIN		1b. CUSTOMER UNIT NAME STTD		1c. PHONE NO 6-0636		3a. WORK ORDER NUMBER (WON)		3b. SHOP		3c. PHONE NO	
2a. SAMS-2 UIC/SAMS-1/TDA		2b. UTILIZATION CODE		2c. MCSR		4a. UIC SUPPORT UNIT		4b. SUPPORT UNIT NAME			
SECTION III - EQUIPMENT DATA											
5. TYPE MNT REQ CODE		6. ID		7. NSN 1005-01-240-2136		15a. FAILURE DETECTED DURING/WHEN DISCOVERED CODE (Enter code) See DA Pamphlets 738-750 and 738-751					
8. MODEL M24		9. NOUN SNIPER WEAPON SYSTEM		10a. ORG WON/DOC NO		10b. EIC		15b. FIRST INDICATION OF TROUBLE/HOW RECOGNIZED CODE (Enter Code) See DA Pamphlets 738-750 and 738-751		16. MILES/KILOMETERS/HOURS/ROUNDS M K H R	
11. SERIAL NUMBER C6523395		12. QTY 1		13. PD 03		17. PROJECT CODE (if assigned)		18. ACCOUNT PROCESSING CODE		19. IN WARRANTY? (enter Y or N)	
14. MALFUNCTION DESCRIPTION (for DSU, GSUI/AVIM, DEPOT use)				21. REIMBURSABLE CUSTOMER (if Intransit customer enter Y or N)				20. ADMIN NO			
				22. LEVEL OF WORK				23. SIGNATURE <i>[Signature]</i>			
24. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURES IN EQUIPMENT TM (Do not prescribe repairs) BROKEN BOLT											
25. REMARKS POC JERRY NELSON 596-0636											
26. TECHNICAL REFERENCES											
SECTION IV - TASK REQUIREMENTS DATA											
27a. FILE INPUT ACT CD		27b. TASK NO		27c. ACT CODE		27d. TASK DESCRIPTION		27e. QTY TO BE RPR		27f. WORK CENTER	
										27g. FAILURE CODE	
										27h. MH PROJ	
										27i. MH EXP	
SECTION V - PART REQUIREMENTS											
28a. FILE INPUT ACT CD		28b. TASK NO		28c. ID NO		28d. NSN OR PART NUMBER		28e. SFX CD		28f. QTY RQD	
										28g. QTY ISSUED	
										28h. NMCS CD	
										28i. FAILURE CODE	
										28j. STORAGE LOCATION	
										28k. INITIALS	
										28l. COST \$	
28m. TOTAL MANHOURS				28n. TOTAL MANHOURS COSTS \$				28o. TOTAL PARTS COSTS \$			
SECTION VI - COMPLETION DATA											
29. QTY RPR		30. QTY CONDEMN		31. QTY NRTS		32. EVAC WON		33. EVAC UNIT NAME			
SECTION VII - ACTION SIGNATURES											
34a. SUBMITTED BY <i>[Signature]</i>		35a. ACCEPTED BY <i>[Signature]</i>		35c. DATE		36a. WORK STARTED BY		37a. INSPECTED BY		38a. PICKED UP BY	
34b. DATE 29 Jul		35b. STATUS		35d. TIME		36b. STATUS		36c. DATE		36d. TIME	
								37b. STATUS		37c. DATE	
								37d. TIME		38b. STATUS	
										38c. DATE	
										38d. TIME	

DA FORM 2407, JUL 94

NMP COPY 2

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523305.___0
FILE DATE AND TIME: 11/17/2005 15:28

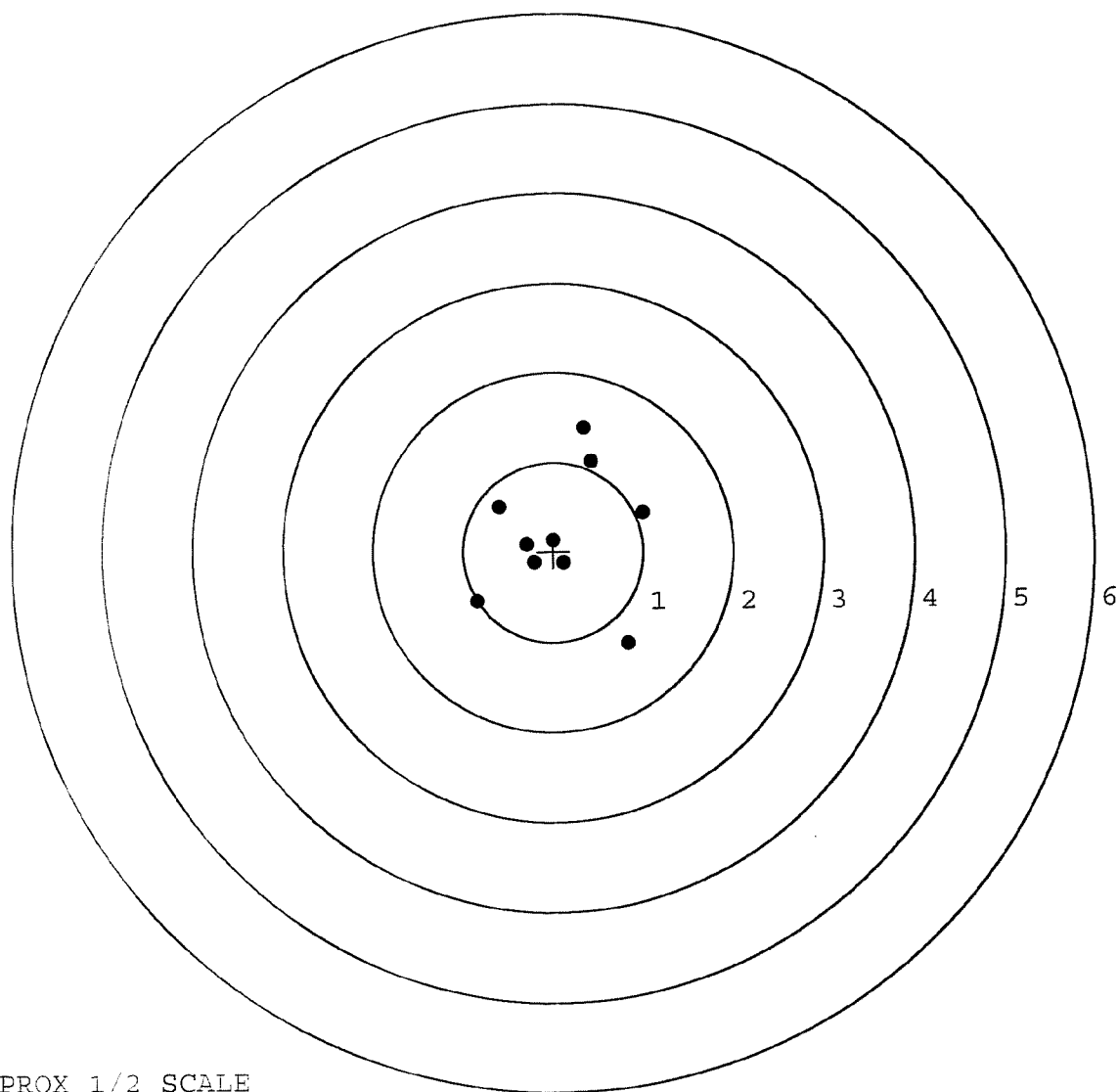
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.064
The Average Y Centroid of the Five Target Set:	0.020
The Average Point of Impact of the Five Target Set:	0.067
The Average Mean Radius of the Five Target Set:	0.743
The Distance from POA to Centroid Target #1:	0.188
The Distance from Centroid Target #2 to Centroid Target #1:	0.255
The Distance from Centroid Target #3 to Centroid Target #1:	0.195
The Distance from Centroid Target #4 to Centroid Target #1:	0.238
The Distance from Centroid Target #5 to Centroid Target #1:	0.093

SERIAL NUMBER: C6523305. __0
TARGET NUMBER: 1
FILE DATE: 11/17/2005
FILE TIME: 15:28

X CENTROID: 0.076
Y CENTROID: 0.172
POA TO CENTROID: 0.188
HORZ SPREAD: 1.844
VERT SPREAD: 2.398
GROUP SPREAD: 2.445
MIN RADIUS: 0.088
MAX RADIUS: 1.405
MEAN RADIUS: 0.763
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.825	-1.017
2:	0.995	0.434
3:	0.429	1.011
4:	0.349	1.381
5:	-0.597	0.504
6:	-0.849	-0.553
7:	0.119	-0.129
8:	-0.219	-0.125
9:	-0.001	0.128
10:	-0.294	0.084



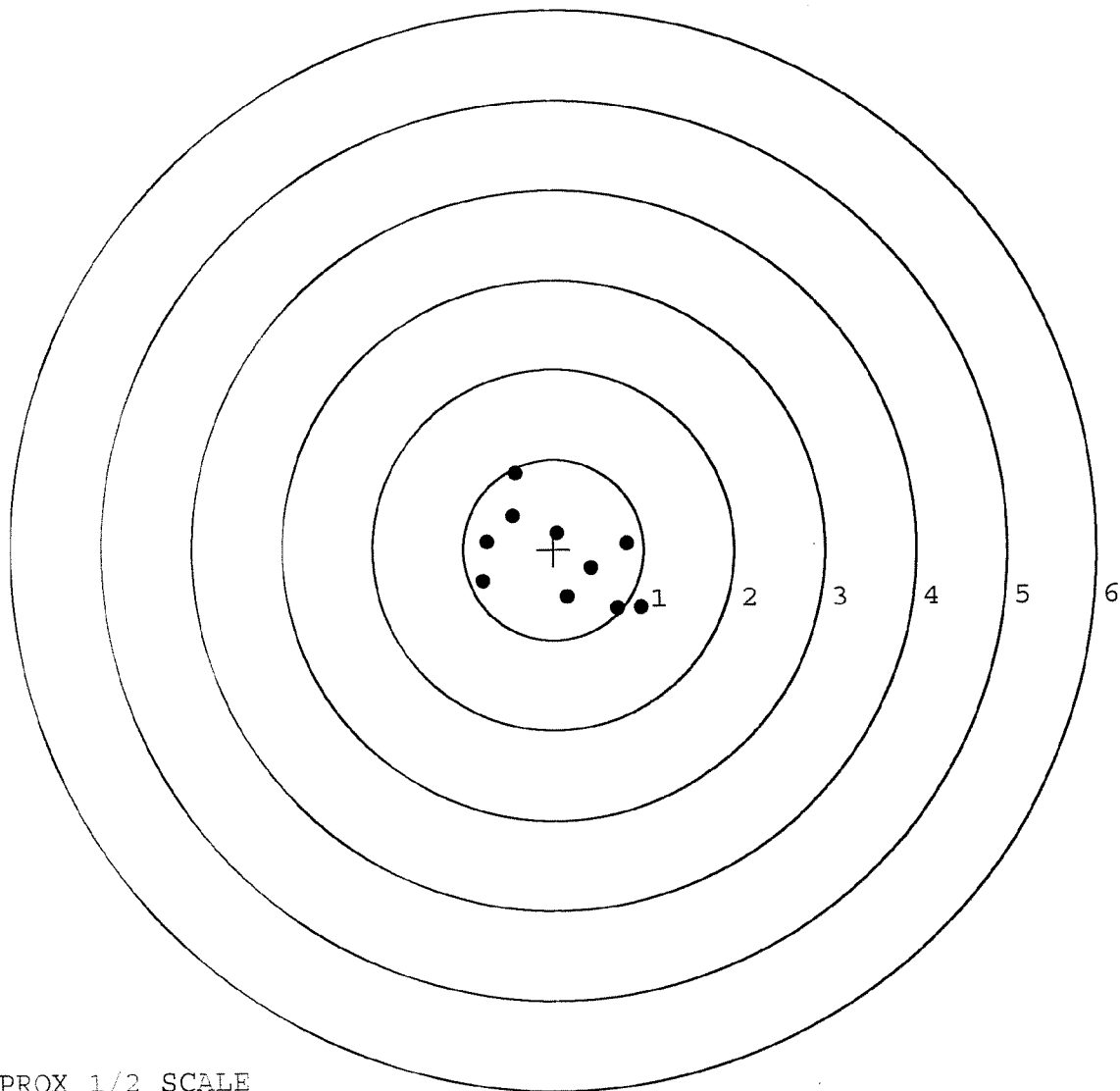
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523305. 0
TARGET NUMBER: 2
FILE DATE: 11/17/2005
FILE TIME: 15:28

X CENTROID: 0.070
Y CENTROID: -0.083
POA TO CENTROID: 0.109
HORZ SPREAD: 1.749
VERT SPREAD: 1.512
GROUP SPREAD: 2.038
MIN RADIUS: 0.266
MAX RADIUS: 1.057
MEAN RADIUS: 0.723

POINT#	X	Y
1:	0.812	0.064
2:	0.964	-0.648
3:	0.701	-0.660
4:	0.419	-0.208
5:	0.148	-0.532
6:	0.043	0.181
7:	-0.785	-0.352
8:	-0.736	0.090
9:	-0.447	0.379
10:	-0.416	0.852

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

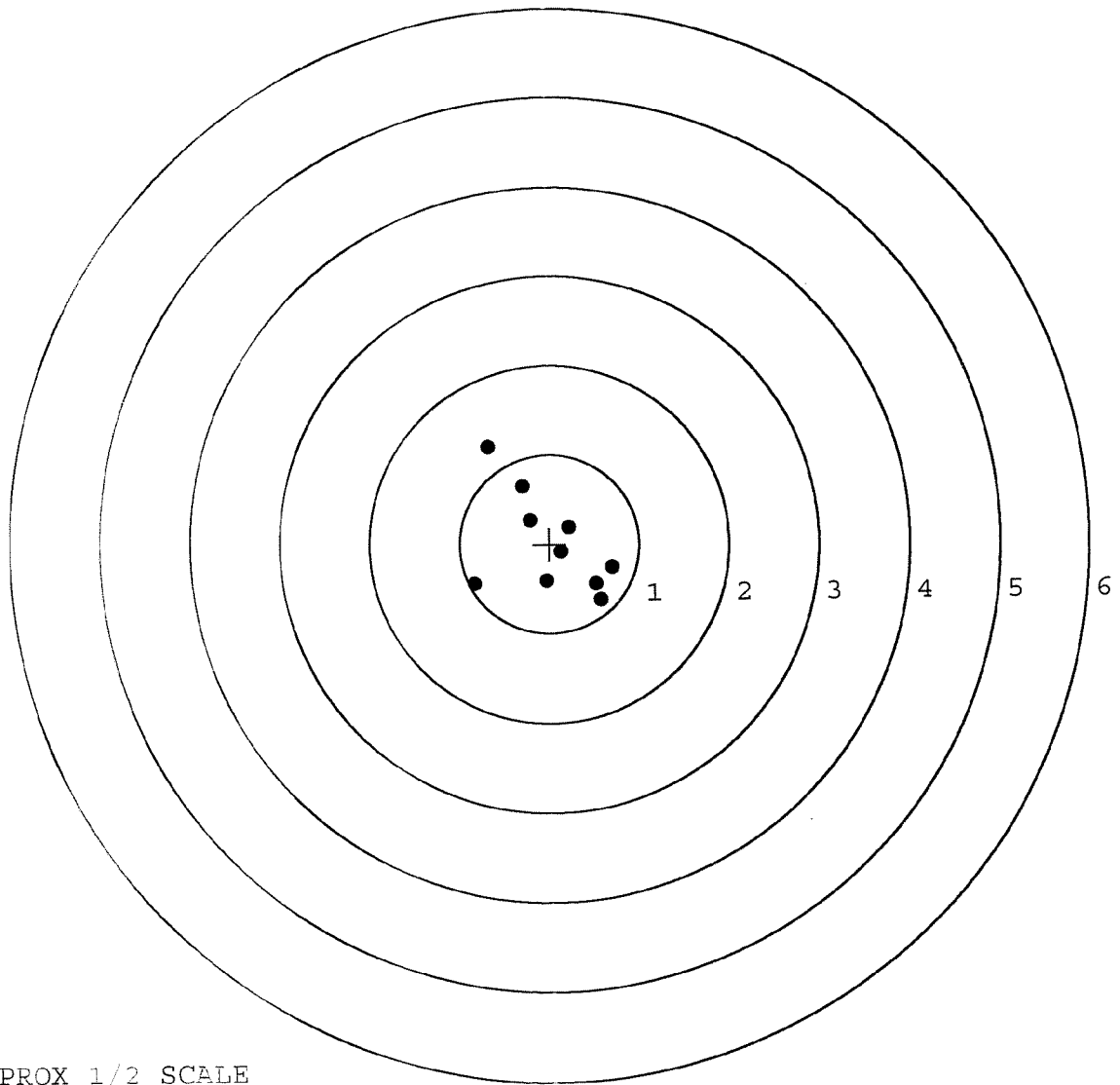


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523305.___0
TARGET NUMBER: 3
FILE DATE: 11/17/2005
FILE TIME: 15:28

X CENTROID: 0.006
Y CENTROID: -0.010
POA TO CENTROID: 0.012
HORZ SPREAD: 1.530
VERT SPREAD: 1.715
GROUP SPREAD: 2.118
MIN RADIUS: 0.147
MAX RADIUS: 1.291
MEAN RADIUS: 0.642
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.568	-0.628
2:	0.517	-0.453
3:	0.696	-0.266
4:	-0.039	-0.419
5:	0.127	-0.093
6:	0.218	0.189
7:	-0.220	0.271
8:	-0.298	0.652
9:	-0.675	1.087
10:	-0.834	-0.441

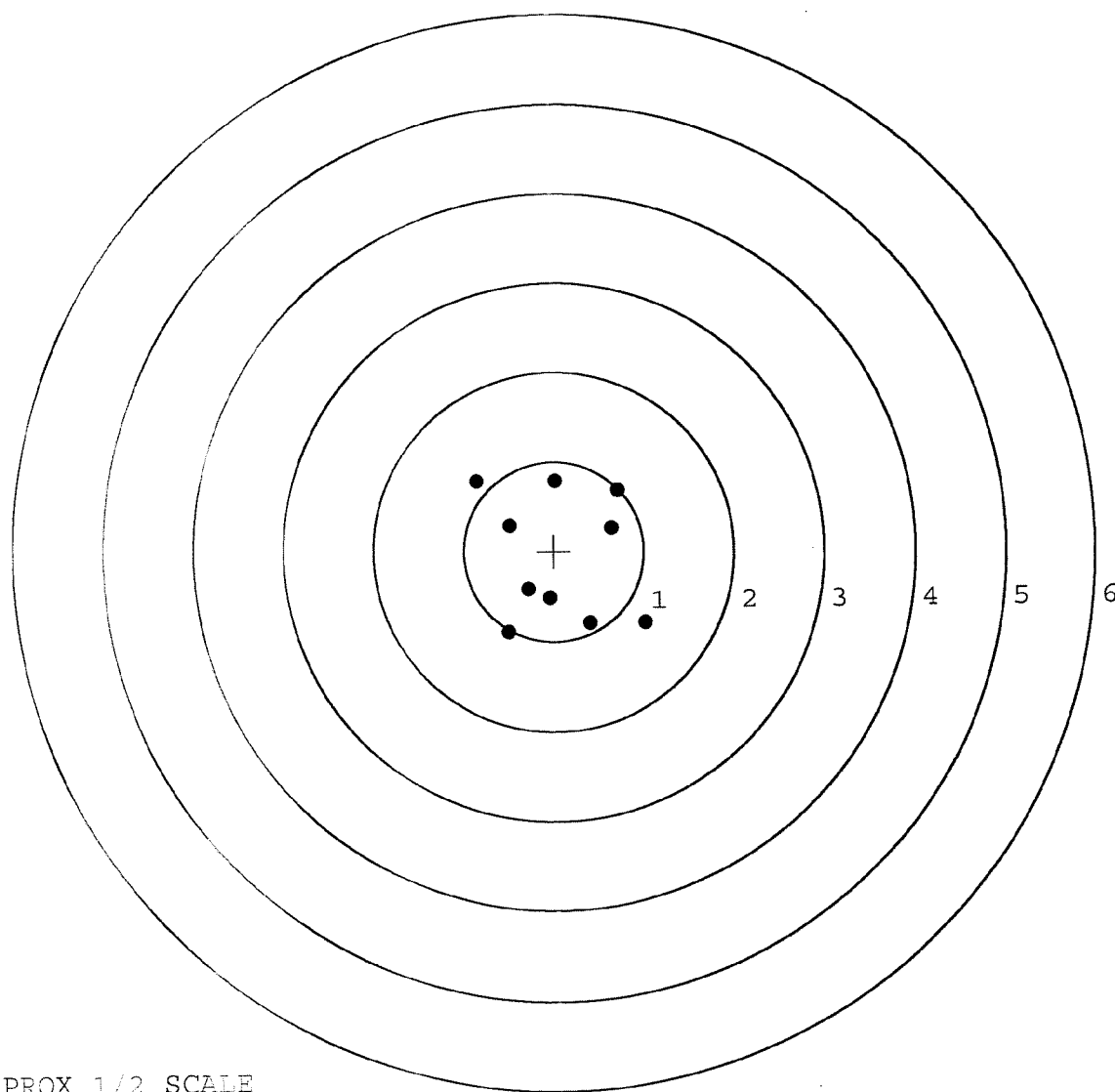


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523305. 0
TARGET NUMBER: 4
FILE DATE: 11/17/2005
FILE TIME: 15:28

POINT#	X	Y
1:	1.010	-0.803
2:	0.398	-0.801
3:	-0.514	-0.895
4:	-0.053	-0.523
5:	-0.288	-0.423
6:	0.642	0.254
7:	0.718	0.679
8:	0.023	0.780
9:	-0.493	0.292
10:	-0.849	0.788

X CENTROID: 0.059
Y CENTROID: -0.065
POA TO CENTROID: 0.088
HORZ SPREAD: 1.859
VERT SPREAD: 1.683
GROUP SPREAD: 2.447
MIN RADIUS: 0.471
MAX RADIUS: 1.246
MEAN RADIUS: 0.840
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523305. __0

TARGET NUMBER: 5

FILE DATE: 11/17/2005

FILE TIME: 15:28

X CENTROID: 0.111

Y CENTROID: 0.085

POA TO CENTROID: 0.140

HORZ SPREAD: 1.233

VERT SPREAD: 2.311

GROUP SPREAD: 2.424

MIN RADIUS: 0.204

MAX RADIUS: 1.244

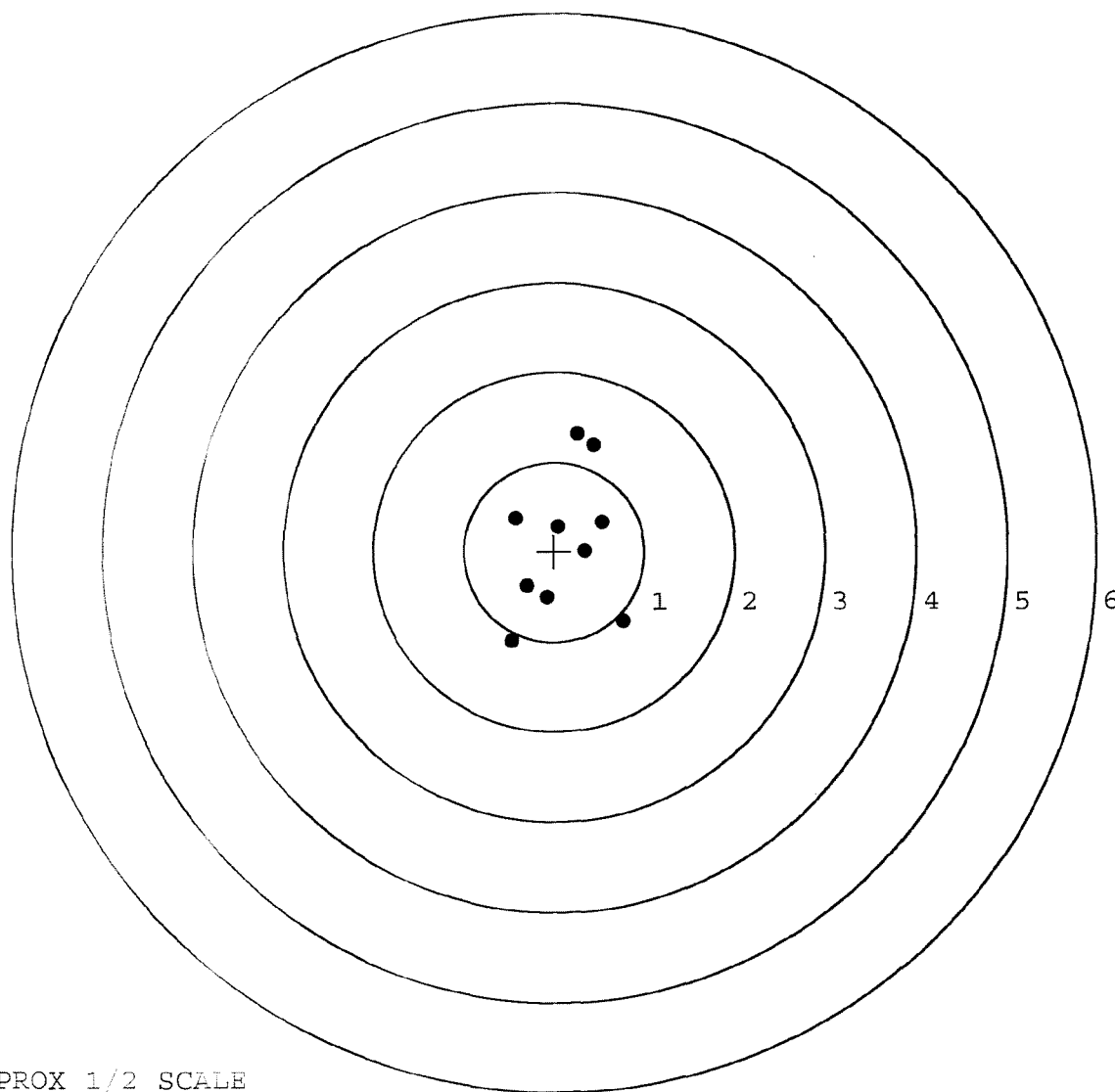
MEAN RADIUS: 0.749

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.765	-0.767
2:	-0.468	-0.991
3:	-0.081	-0.512
4:	-0.305	-0.381
5:	0.530	0.328
6:	0.344	0.011
7:	0.043	0.278
8:	-0.428	0.368
9:	0.443	1.197
10:	0.263	1.320



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER	103098			
SERIAL NUMBER	C6523305			
LOG-IN DATE	11-1-05			
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		11-8-05	RTZ
505	RE-BARREL		11-9-05	RTZ
560	ASSEMBLE		11-9-05	CD
600	PROOF	MAG-2-FLUX INSPECTED	11-9-05	CD
605	CHECK HEADSPACE	NOI	11-9-05	CD
610	DIS-ASSEMBLE GUN		11-9-05	CD
612	MAGNAFLUX	OPERATOR <u>remel</u>	11/10/05	<u>remel</u>
510	DRILL AND TAP		11-10-05	BTR
615	ROLLMARK CALIBER		11-10-05	CW
618	ROTO-BLAST		11-14-05	LB
620	APPLY COATINGS		11/15/05	HB
625	FINAL ASSEMBLY		11-16-05	RTZ
640	FUNCTION TEST AND	(PASS) FAIL	11-17-05	TRW
650	TARGET	PASS FAIL	11-17-05	TRW
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		11-17-05	TRW
	A) HEADSPACE	(PASS) FAIL	12-5-05	RTZ
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.58 2.58 2.64 2.66 2.63	RTZ
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS	4.0 4.0 4.0	RTZ
	G) SAFETY OFF FORCE	2 LBS MIN	2.0 2.0 2.25	RTZ
	I) FIRING PIN INDENT	.020	0.21 0.22 0.21	RTZ
690	PACK		12/5/05	RTZ

Remington		DU PONT REG. U.S. PAT. & TM. OFF.	VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ H24		SERIAL NO. C6523305	ORDER NO. 5716
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.			
 5716 C6523305			

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6523305

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	9 25	90	RW
600	Proof	9 25	90	RW
607	Check Headspace	9 25	90	RW
610	Dis-assemble Gun	9 25	90	RW
612	Magnaflux Barrel Action		9-26-90	KR
	Magnaflux Bolt		9-26-90	RR
615	Rollmark Caliber		9-26-90	D.S.
617	Drill and Tap Sight Holes		9/28/90	FB
618	Polish Barrel RB		10/1/90	WB
620	Apply Coatings (Barrel Action)		10-5-90	TH
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		10/8/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/8/90	RW
	C) Inspect Ejector Hole for Chamfer		10/8/90	RW
	D) Oil Firing Pin Ass'y		10/8/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		10-8-90	TH

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/4	4 1/4	4 1/4			10/9/90	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			10/9/90	WB
	H) Trigger Pull Test & Retainability						10/8/90	gcl
	I) Firing Pin Indent	.072	.072	.072			10/9/90	WB
	J) Assemble Stock						10/9/90	RW
	K) Assemble Swivel Studs						11-20-90	DH
	L) Attach Front and Rear Sight Assemblies						10/9/90	RW
	M) Iron Sight Alignment						10/9/90	RW
	N) Detach Front & Rear Sights & place in numbered container						10/9/90	RW
	O) Attach Scope to Rifle						10/9/90	RW
	P) Detach & Attach Scope 20 Times						10/9/90	RW
640	Gallery Target & Test						10-10-90	AC
	A) Time						10-10-90	AC
	B) Malfunctions						10-10-90	AC
	C) Pierced Primers						10-10-90	AC
	D) Optical Clarity of Scope						10-10-90	AC
645	Inspect for Live Ammo						10-10-90	AC
655	Final Inspection							
	A) Headspace						11-20-90	DH
	B) Trigger Pull	282	270	270	276	271	11-20-90	DH
	C) Function						11-20-90	DH
660	Pack						12-17-90	DH

MOD. _____ GA. CAL. _____ GUN # 66523305

#	DATE	MALFUNCTION/DEFECT	ASSEM. #
TEST	1st	Shaver brass Don't eject	RW
	2nd	OK 100 Rds	AC
	3rd	Out 31, 1990	
	4th		
		FUNCTION	RD 6654 Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	Rem Ejector	10
	Not	30
TEST	Polish Ejector	40
TGT		Rev
PROOF		
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

SWS TRIGGER PULL TEST

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

SERIAL NO. C6523305

DATE 10-8-90

TESTER JRP

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.56	2.24	2.26	2.82	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.56	2.52	2.21	2.70	
PULL #3	2.37	2.58	2.37	2.70	
PULL #4	2.61	2.58	2.41	2.76	
PULL #5	2.58	2.57	2.19	2.77	
TOTAL	12.68	12.49	11.44		
AVG.	2.536	2.498	2.288		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.37	3.49		
PULL #2	3.18	3.57		
PULL #3	3.45	3.54		
PULL #4	3.50	3.26		
PULL #5	3.49	3.31		
TOTAL	16.99	17.17		
AVG.	3.398	3.434		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.58	4.40		4.48
PULL #2	4.48	4.30		4.11
PULL #3	4.48	4.43		4.15
PULL #4	4.50	4.47		4.20
PULL #5	4.52	4.48		4.10
TOTAL	22.56	22.14		21.04
AVG.	4.512	4.428		4.208

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523305
10 Oct 1990

CENTROIDAL DISTANCES

0 TO	1	.122319
1 TO	2	.456885
1 TO	3	.180867
1 TO	4	.159248
1 TO	5	.214767

310^2 <----POB

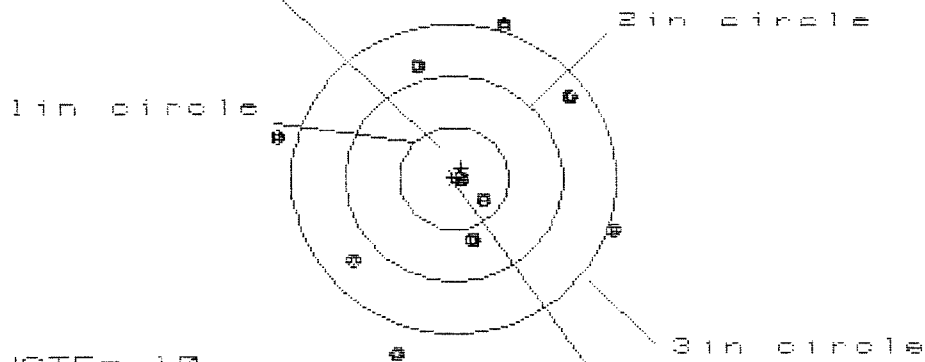
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0586
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0322
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .066864
THE AMR FOR THIS RIFLE IS: .9358

18 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523385

CENTERFIRE PATTERNS # 1

POB



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 3

3 in = 5

HS= 2.124

VS= 3.202

GS= 3.356

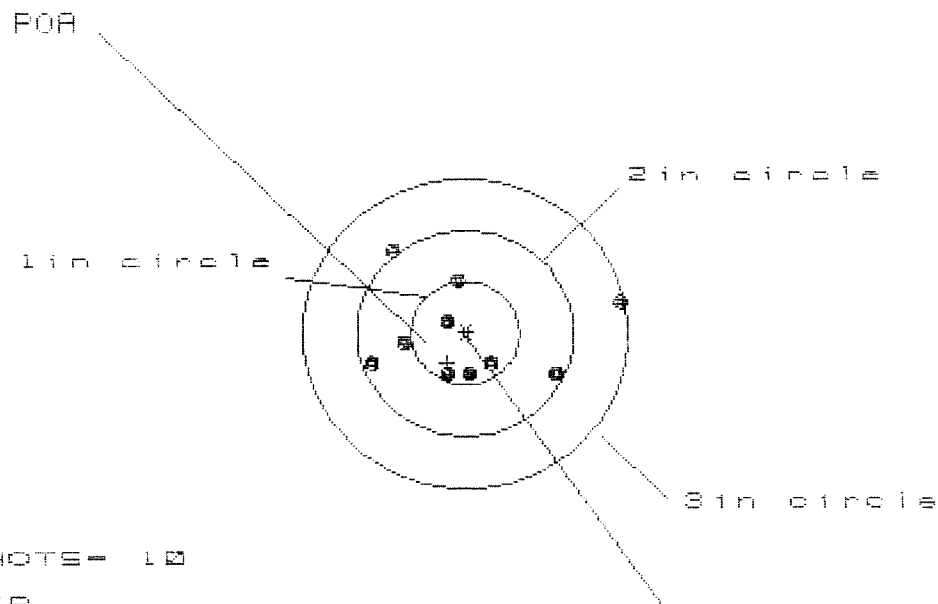
CENTROID #

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.500	1.440	1.229
MINIMUM X	:	-1.633	-1.694	-1.209
MAXIMUM Y	:	1.494	1.304	1.331
MINIMUM Y	:	-1.708	-.995	-.968
CENTROID X	:	-.069	-.008	.203
CENTROID Y	:	-.101	.089	.062
POB TO CENTROID in.	:	.122	.089	.213
MIN RADIUS	:	.041	.163	.278
MEAN RADIUS	:	1.129	1.069	.978
MAX RADIUS	:	1.792	1.708	1.549
HORIZONTAL SPREAD	:	3.134	3.134	2.438
VERTICAL SPREAD	:	3.202	2.299	2.299
EXTREME SPREAD	:	3.356	3.256	2.692
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		6	

18 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523385

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 4

2in = 8

3in = 10

HS= 2.364

VS= 1.264

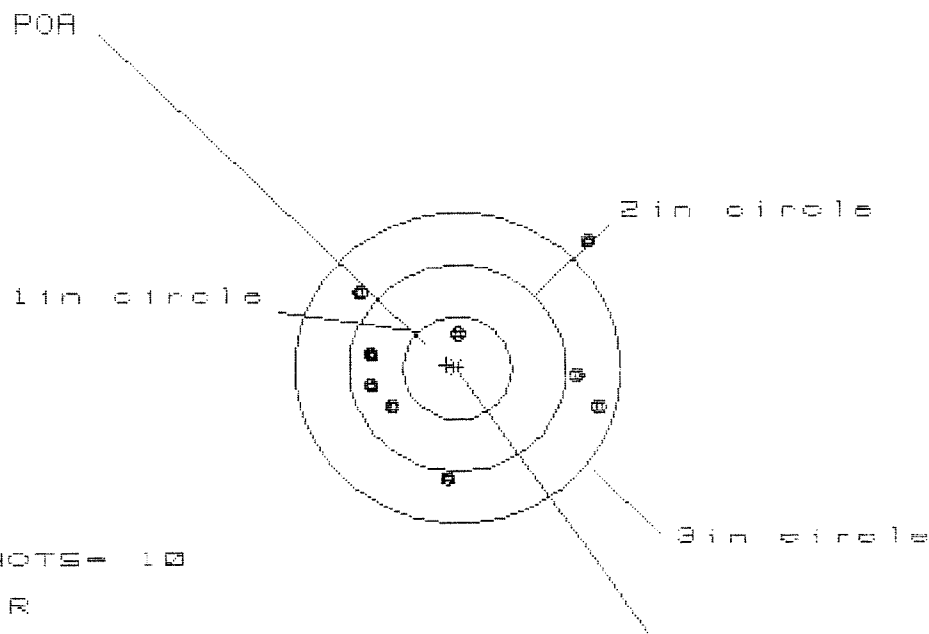
GS= 2.439

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.448	.979	.922
MINIMUM X	:	-.916	-.755	-.812
MAXIMUM Y	:	.831	.866	.674
MINIMUM Y	:	-.433	-.398	-.290
CENTROID X	:	.169	.008	.065
CENTROID Y	:	.289	.254	.146
POA TO CENTROID in.	:	.335	.254	.150
MIN RADIUS	:	.215	.190	.240
MEAN RADIUS	:	.688	.577	.512
MAX RADIUS	:	1.483	1.035	.949
HORIZONTAL SPREAD	:	2.364	1.734	1.734
VERTICAL SPREAD	:	1.264	1.264	.964
EXTREME SPREAD	:	2.439	1.874	1.736
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

18 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523385

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.194

VS= 2.317

GS= 2.647

CENTROID #

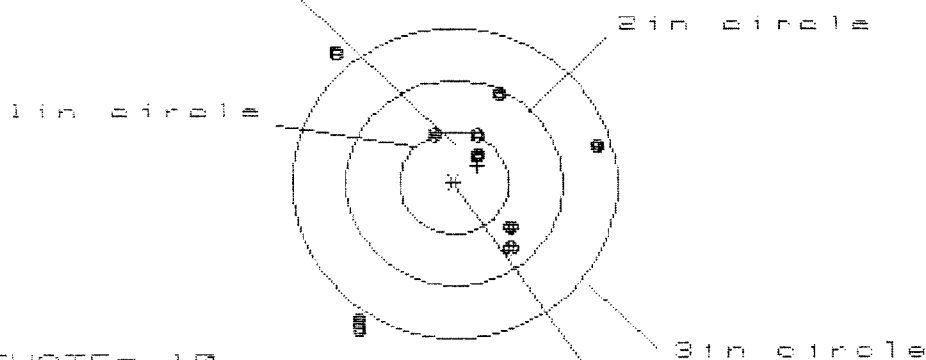
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.343	1.478	1.424
MINIMUM X	:	-.851	-.716	-.532
MAXIMUM Y	:	1.208	.869	.837
MINIMUM Y	:	-1.109	-.975	-1.006
CENTROID X	:	.099	-.036	-.220
CENTROID Y	:	-.034	-.168	-.137
POA TO CENTROID in.	:	.105	.172	.259
MIN RADIUS	:	.311	.477	.356
MEAN RADIUS	:	.977	.859	.721
MAX RADIUS	:	1.712	1.499	1.424
HORIZONTAL SPREAD	:	2.194	2.194	1.956
VERTICAL SPREAD	:	2.317	1.844	1.844
EXTREME SPREAD	:	2.647	2.465	2.130
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

18 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523385

CENTERFIRE PATTERNS # 4

POA



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 7

HS= 2.432

VS= 2.682

GS= 2.849

CENTROID #

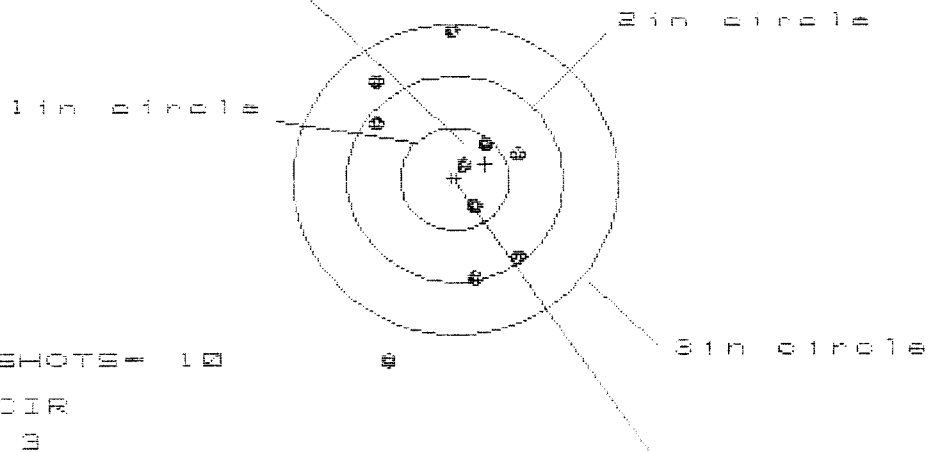
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.319	1.196	1.069
MINIMUM X	:	-1.113	-1.014	-1.135
MAXIMUM Y	:	1.292	1.044	.889
MINIMUM Y	:	-1.390	-1.247	-1.389
CENTROID X	:	-.213	-.090	.037
CENTROID Y	:	-.169	-.312	-.157
POA TO CENTROID in.	:	.272	.325	.161
MIN RADIUS	:	.301	.397	.253
MEAN RADIUS	:	1.012	.930	.794
MAX RADIUS	:	1.705	1.607	1.794
HORIZONTAL SPREAD	:	2.432	2.210	2.204
VERTICAL SPREAD	:	2.682	2.291	2.278
EXTREME SPREAD	:	2.849	2.849	2.836
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		7	

18 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523385

CENTERFIRE PATTERNS # 5

POA



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 9

HS = 1.253

VS = 3.220

GS = 3.268

CENTROID #

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.578
MINIMUM X	-.675
MAXIMUM Y	1.494
MINIMUM Y	-1.726
CENTROID X	-.279
CENTROID Y	-.146
POA TO CENTROID in.	.315
MIN RADIUS	.182
MEAN RADIUS	.873
MAX RADIUS	1.820
HORIZONTAL SPREAD	1.253
VERTICAL SPREAD	3.220
EXTREME SPREAD	3.268
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	7
NUMBER IN THREE INCH CIRCLE =	9