

C6611427

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.

Remington

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: **RE00094571** Serial: C6611427 Model M24 SWS Center Fire Caliber 7.62 NATO Repairman: Status: Closed 9/14/2005 3:18:57 PM

Verify Repair

Address Information

Customer: Received From Return To: Received From

Name: ISSD ARMS ROOM ISSD ARMS ROOM

Address 1: BLDG 5210 30 BLDG 5210 30

Address 2: PO Box PO Box

City: FORT CAMPBELL FORT CAMPBELL

State: KY Zip Code: 42223 Country: US State: KY Zip Code: 42223 Country: US

FFL: [] [] [] [] [] [] [] []

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information

Phone: N/A

Fax:

Email:

Comments:

Received Condition

Good

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A042	Adjustable Butt Pad	1

Repair Search Refresh Close

magletj 3/14/2005 3:31 PM CAPS NUM TIME SCPL

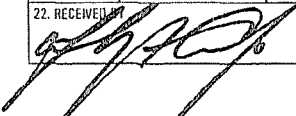
start 2 Arms 5 2

Serial Number: **C6611427**

Model: **M24 SWS**



RE00094571

1. TOTAL PRICE										2. SHIP FROM PROPERTY CONTROL OFFICE, FT. CAMPBELL, KY										3. SHIP TO REMINGTON ARMS, 14 HOEFLER AVE, ILTON NY. 13357-1826																																							
UNIT PRICE										DOLLARS										CTS																																							
DOLLARS										CTS																																																	
5 1 4 5										0 0										5 1 4 5										0 0																													
4. MARK FOR ATTN: MICHAEL HAUGEN																																																											
5. DOC DATE										6. NMFC										7. FRT RATE										8. TYPE CARGO										9. PS																			
10. QTY. REC'D 1										11. UP										12. UNIT WEIGHT										13. UNIT CUBE										14. UFC										15. SL									
16. FREIGHT CLASSIFICATION NOMENCLATURE																																																											
17. ITEM NOMENCLATURE RIFLE, SNIPER M24 SWS SERIAL NUMBER: 66300027 C6611427																																																											
18. TY CONT BOX										19. NO CONT										20. TOTAL WEIGHT										21. TOTAL CUBE																													
22. RECEIVED 																				23. DATE RECEIVED 4 MAR 05																																							

24. DOCUMENT NUMBER
& SUFFIX (33-44)
W90L62 5063-0001

25. NATIONAL
STOCK NO. &
ADD (8-22)
LIN: R95387
1005-01-240-2136
SN: ~~66300027~~
C6611427

26. PIC (4-6)
LN (23-24)
DIR (25-26)
CON CODE (7-1)
DST (55-56)
UP (74-80)

27. ADDITIONAL DATA
RETURNED FOR REPAIR--PLEASE RETURN WEAPONS TO TRANS OFFICER--BLDG 5210 DOOR 30, FT. CAMPBELL. KY 42223

STATION FUNDS

POC: SFC Michael Butts
5-4 1/307 Inf
798-2845/2849

PREVIOUS EDITION MAY BE USED

USAPA V1.01

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

R & E NUMBER	94571		
SERIAL NUMBER	C6611427		
LOG-IN DATE	3-14-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN		
560 A	RE-BARREL		
B	DRILL AND TAP		
575	ASSEMBLE		
600	PROOF		
605	CHECK HEADSPACE		
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX		
615	ROLLMARK CALIBER		
618	ROTO-BLAST		
620	APPLY COATINGS		
625 A	FINAL ASSEMBLY		
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET TEST	4-14-05	AC
655	FINAL INSPECT	4-14-05	RTZ
660	PACK	4-14-05	EA
		SHIP DATE	
QAR INSPECTION DATE			

Repair Inquiry

Repair Number: **RE00082821**

Serial: C6611427 Model: M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Verify Repair:

Status:

New 7/14/2004 10:29:59 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: **TRANSPORTATION OFFICE**

TRANSPORTATION OFFICE

Address 1: **BLDG 5210 DOOR 30**

BLDG 5210 DOOR 30

Address 2: PO Box:

PO Box:

City: **FORT CAMPBELL**

FORT CAMPBELL

State: **KY**

Zip Code: **42223**

Country: **US**

State: **KY**

Zip Code: **42223**

Country: **US**

FPL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Good

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
C000	FRT AND REAR SGT	1

Repair Search

Refresh

Close

Inactive

7/14/2004

1:09 PM

CAPE

NUM

INS

30PL

start

3

Arms Services

3

3

3

3

Serial Number:

C6611427

Model: **M24 SWS**



RE00082821

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

SERIAL # C 6611422

INSPECTED BY: RTZ

DATE REC'D: 7-14-04

DATE RET'D: 8-13-04

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:

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611427.___0
FILE DATE AND TIME: 02/21/2002 02:52

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.128
The Average Y Centroid of the Five Target Set:	0.008
The Average Point of Impact of the Five Target Set:	0.128
The Average Mean Radius of the Five Target Set:	0.678
The Distance from POA to Centroid Target #1:	0.367
The Distance from Centroid Target #2 to Centroid Target #1:	0.425
The Distance from Centroid Target #3 to Centroid Target #1:	0.491
The Distance from Centroid Target #4 to Centroid Target #1:	0.593
The Distance from Centroid Target #5 to Centroid Target #1:	0.333

SERIAL NUMBER: C6611427. __0

TARGET NUMBER: 1

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.469	0.649
2:	-1.049	0.387
3:	-0.542	0.168
4:	-0.502	0.406
5:	0.396	-0.045
6:	0.773	0.315
7:	0.710	0.596

X CENTROID: -0.098

Y CENTROID: 0.354

POA TO CENTROID: 0.367

HORZ SPREAD: 1.822

VERT SPREAD: 0.694

GROUP SPREAD: 1.823

MIN RADIUS: 0.408

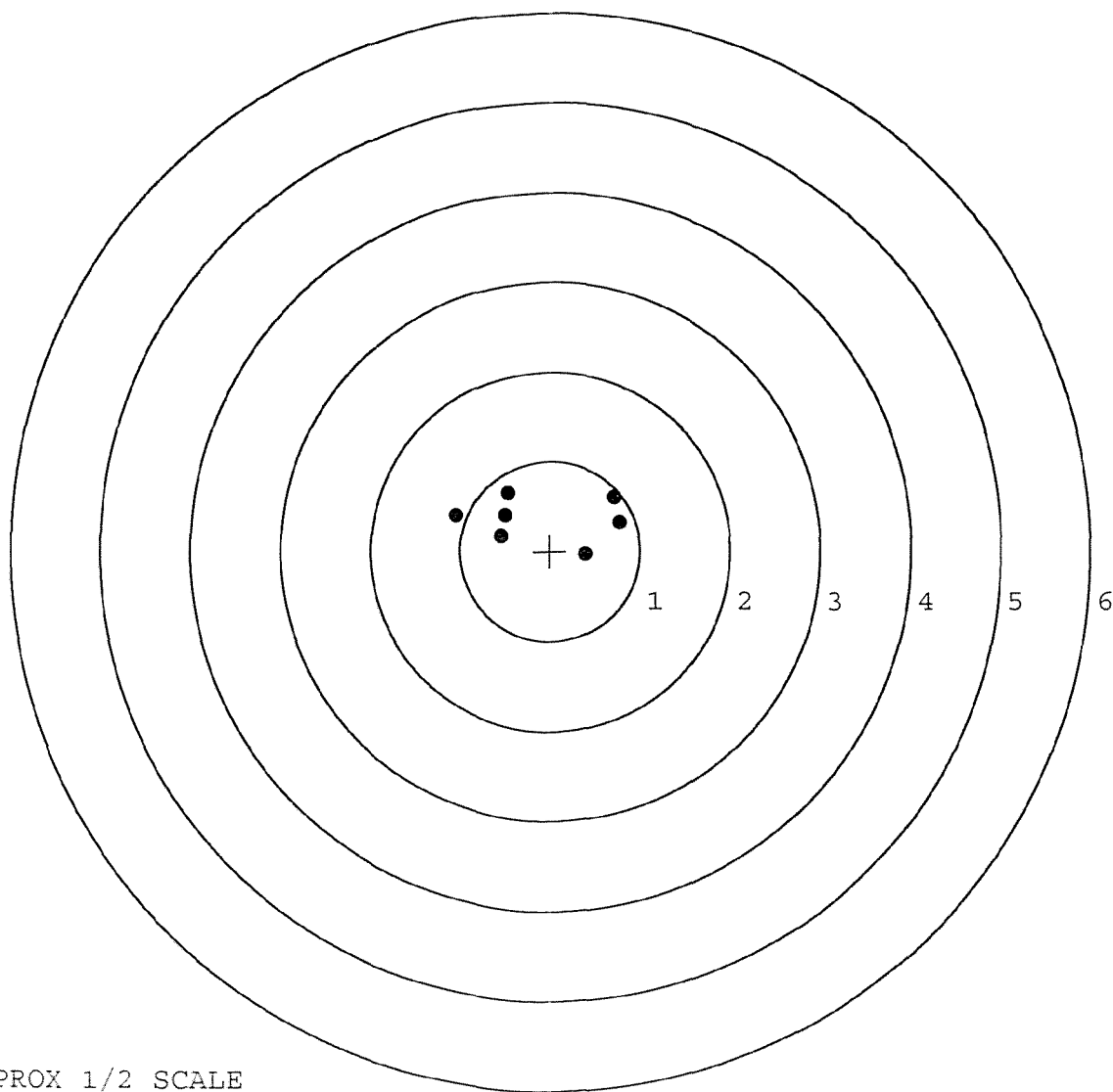
MAX RADIUS: 0.952

MEAN RADIUS: 0.666

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0

TARGET NUMBER: 2

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.021	-0.318
2:	0.171	-0.016
3:	0.256	-0.105
4:	0.438	-0.053
5:	0.568	-0.243
6:	0.621	-0.366
7:	-0.637	-0.616
8:	-0.297	-0.415
9:	-0.295	0.935
10:	-0.011	0.872

X CENTROID: 0.079

Y CENTROID: -0.033

POA TO CENTROID: 0.086

HORZ SPREAD: 1.258

VERT SPREAD: 1.551

GROUP SPREAD: 1.591

MIN RADIUS: 0.093

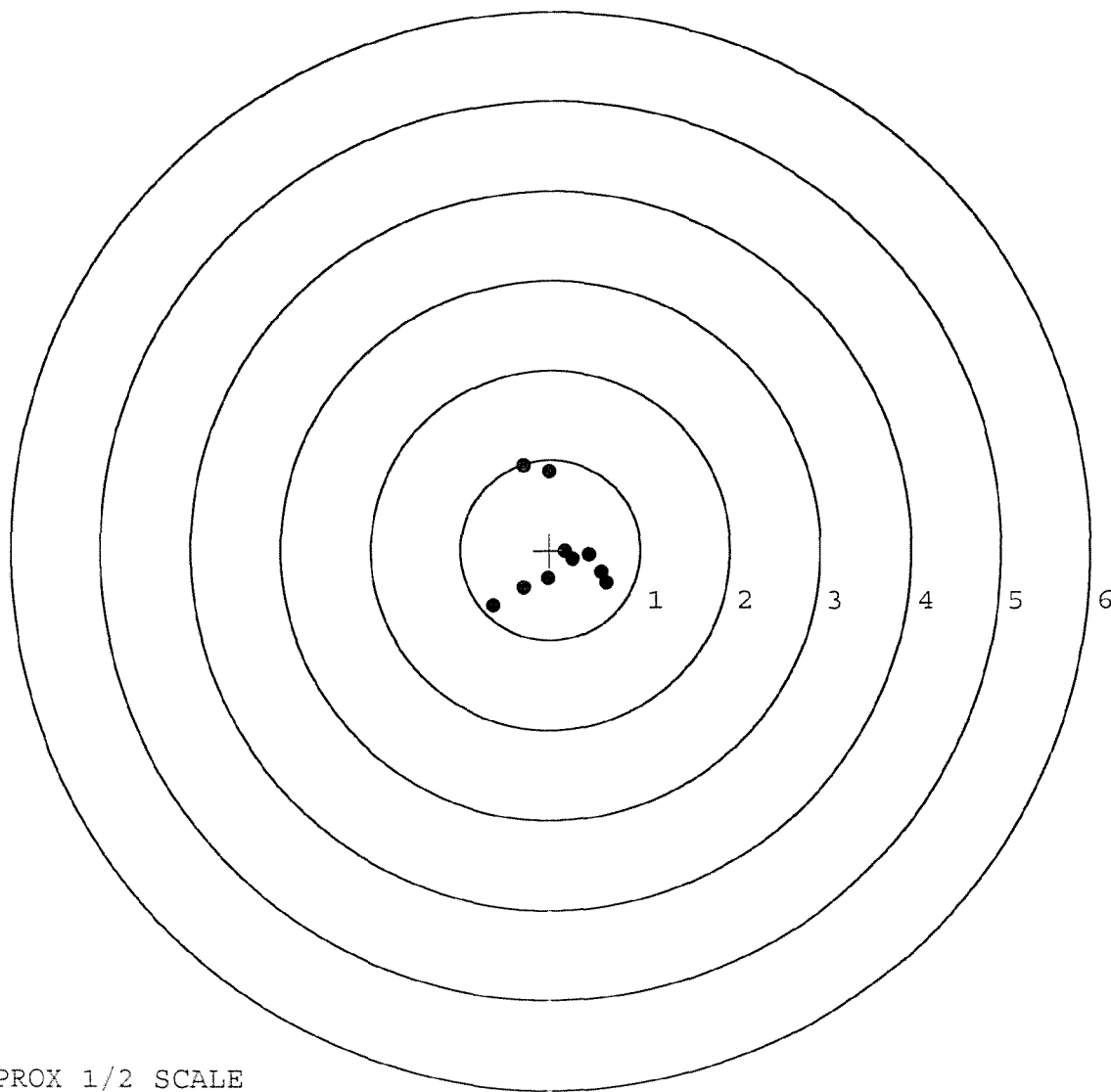
MAX RADIUS: 1.037

MEAN RADIUS: 0.552

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0

TARGET NUMBER: 3

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.667	0.961
2:	-0.689	0.452
3:	-0.737	-0.065
4:	-1.491	0.698
5:	-0.249	-0.787
6:	-0.253	-0.423
7:	0.095	-0.664
8:	0.111	-0.354
9:	0.203	-0.485
10:	0.464	-0.161

X CENTROID: -0.321

Y CENTROID: -0.083

POA TO CENTROID: 0.332

HORZ SPREAD: 1.955

VERT SPREAD: 1.748

GROUP SPREAD: 2.135

MIN RADIUS: 0.347

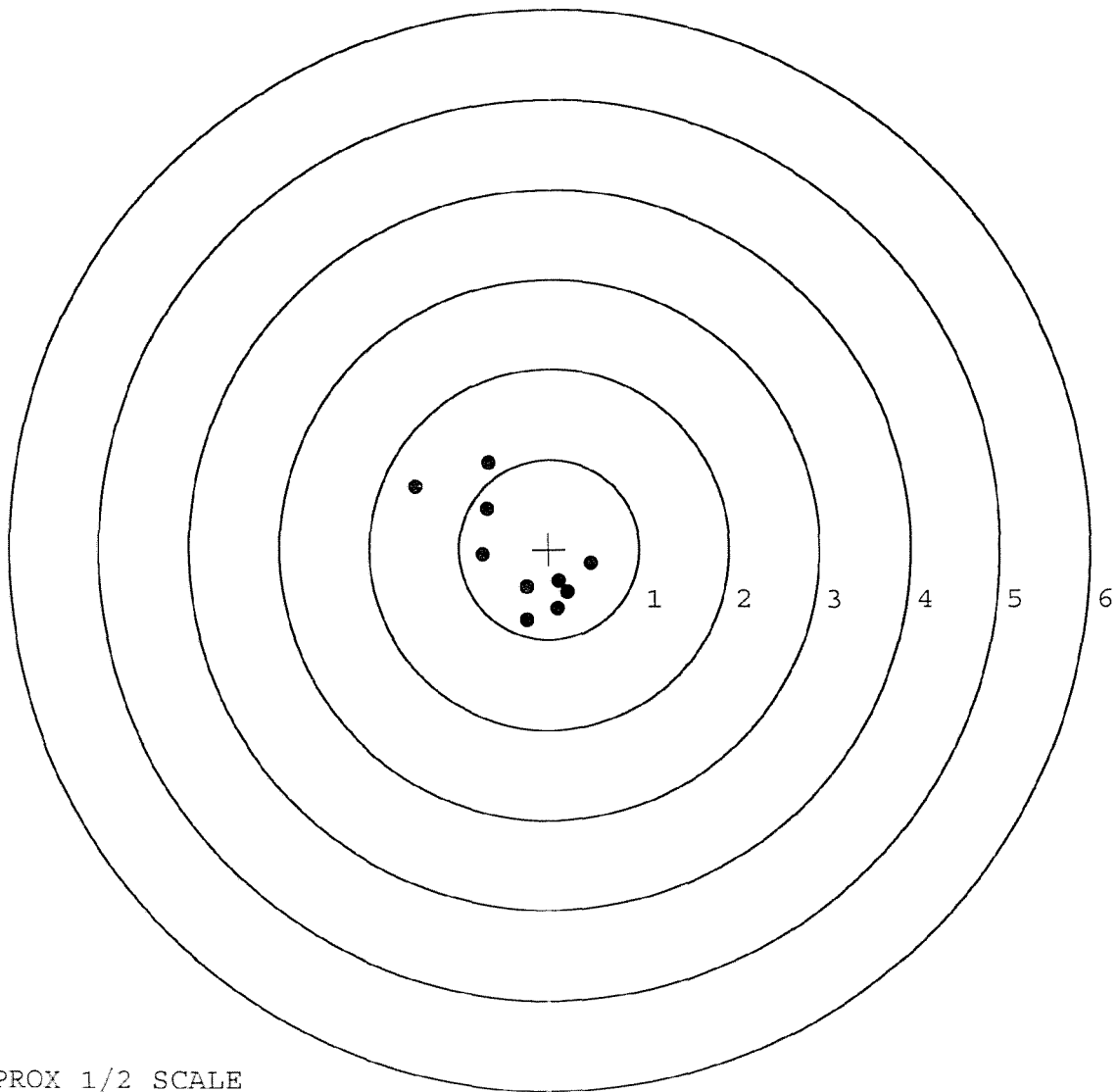
MAX RADIUS: 1.406

MEAN RADIUS: 0.730

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. 0

TARGET NUMBER: 4

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.255	1.050
2:	-0.903	0.292
3:	-0.561	-0.287
4:	-0.526	-0.555
5:	-0.644	-1.004
6:	-0.324	-0.492
7:	-0.069	-0.362
8:	0.265	-0.264
9:	0.875	-0.431
10:	-0.323	-0.150

X CENTROID: -0.246

Y CENTROID: -0.220

POA TO CENTROID: 0.331

HORZ SPREAD: 1.778

VERT SPREAD: 2.054

GROUP SPREAD: 2.091

MIN RADIUS: 0.104

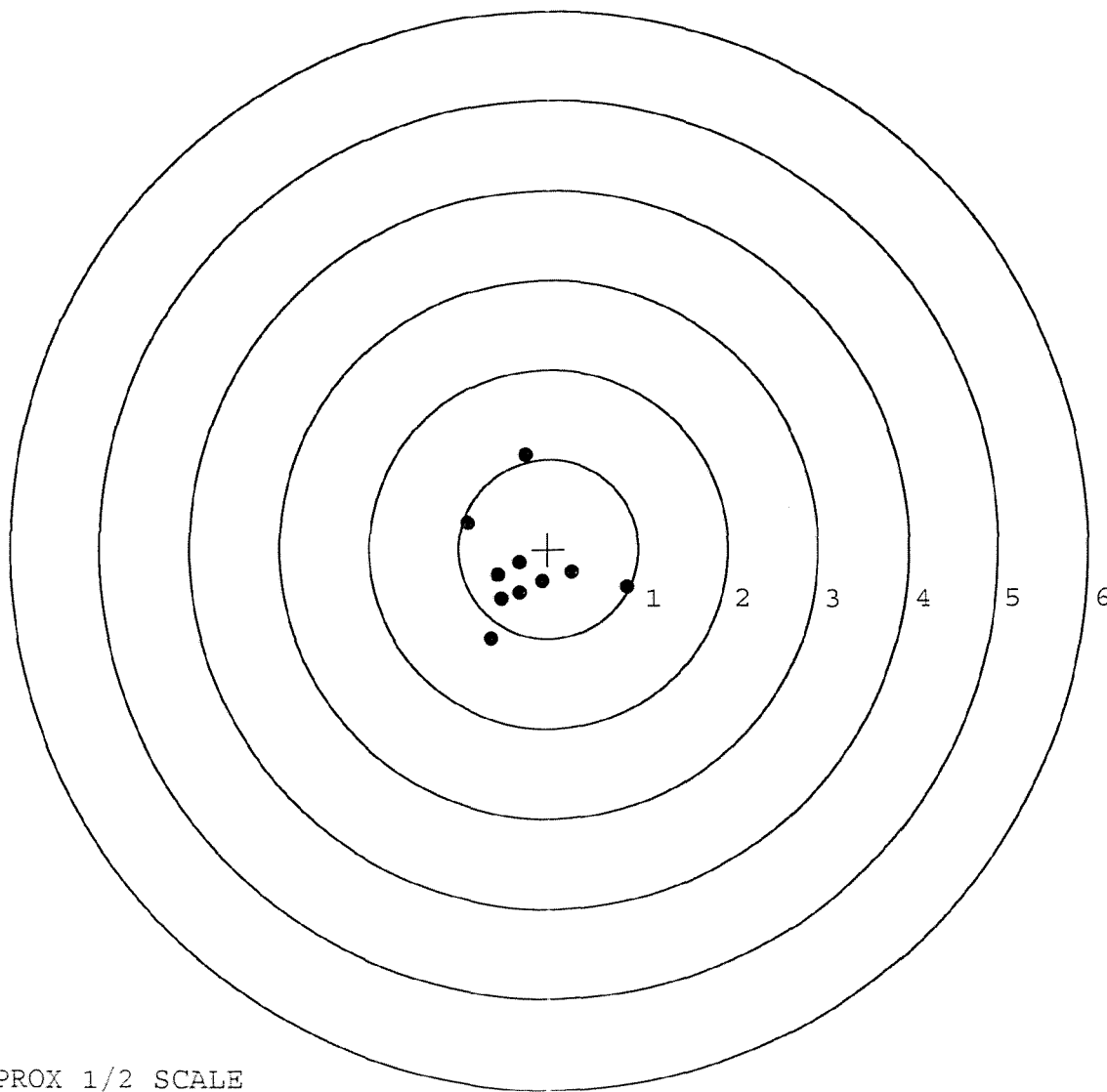
MAX RADIUS: 1.270

MEAN RADIUS: 0.601

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

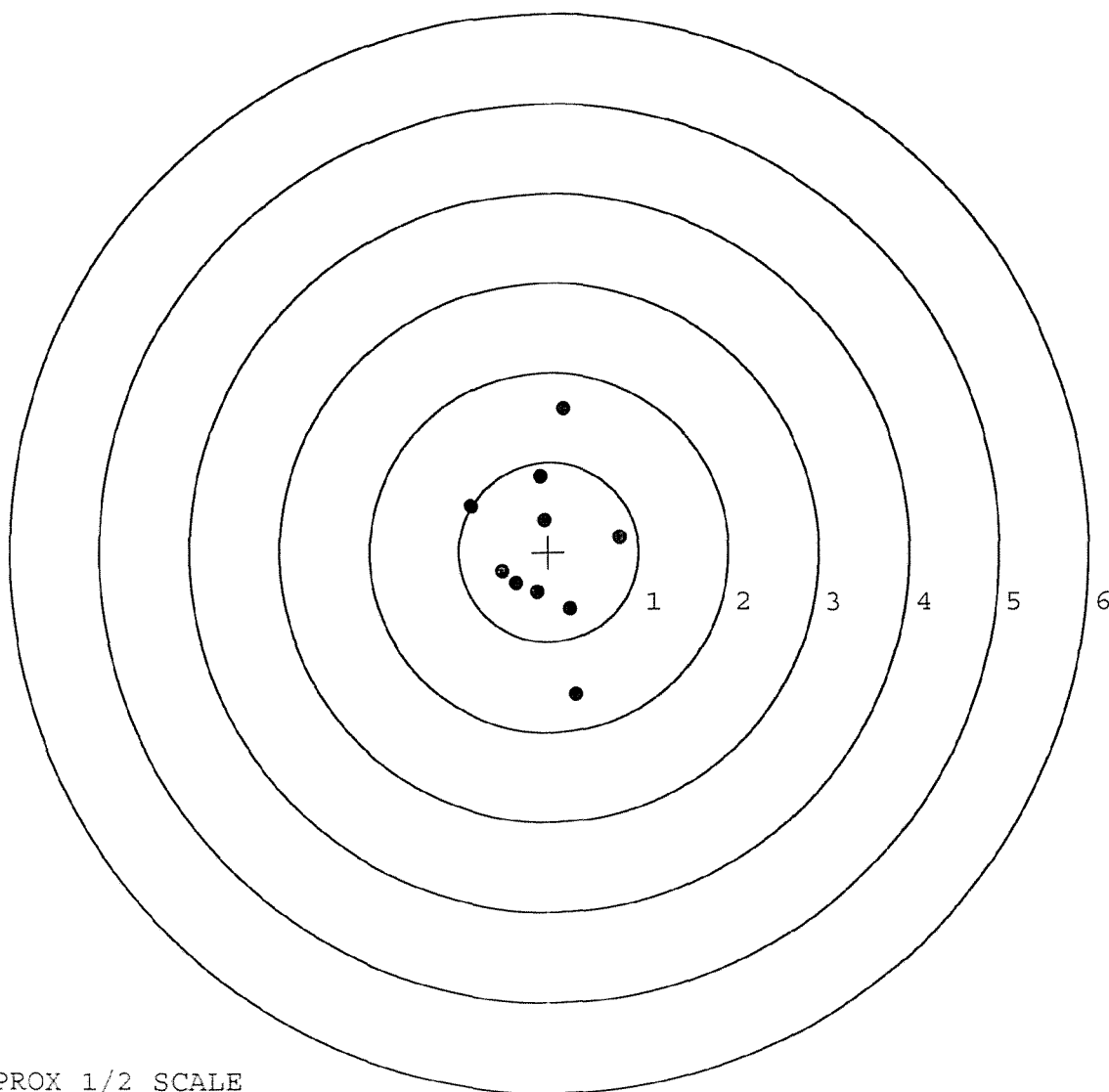


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0
 TARGET NUMBER: 5
 FILE DATE: 02/21/2002
 FILE TIME: 02:52

POINT#	X	Y
1:	0.163	1.597
2:	-0.098	0.841
3:	-0.872	0.513
4:	-0.051	0.358
5:	-0.518	-0.214
6:	-0.131	-0.450
7:	0.241	-0.642
8:	0.310	-1.587
9:	0.785	0.168
10:	-0.361	-0.350

X CENTROID: -0.053
 Y CENTROID: 0.023
 POA TO CENTROID: 0.058
 HORZ SPREAD: 1.657
 VERT SPREAD: 3.184
 GROUP SPREAD: 3.187
 MIN RADIUS: 0.335
 MAX RADIUS: 1.651
 MEAN RADIUS: 0.841
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	82821		
SERIAL NUMBER	C6611427		
LOG-IN DATE	7-14-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	7-15-04	RTL
560 A	RE-BARREL	7-15-04	RTL
B	DRILL AND TAP	7-19-04	TRLW
575	ASSEMBLE	7-19-04	RTL
600	PROOF	7-19-04	RTL
605	CHECK HEADSPACE	7-19-04	RTL
610	DIS-ASSEMBLE GUN	7-19-04	RTL
612	MAGNAFLUX	7-19-04	BS
615	ROLLMARK CALIBER	7-19-04	RTL
618	ROTO-BLAST	7/20/04	DG
620	APPLY COATINGS	7-21	TA
625 A	FINAL ASSEMBLY	7-23-04	RLW
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	8-9-04	AC
655	FINAL INSPECT	8-13-04	RTL
660	PACK	8-13-04	DA
		SHIP DATE	
	QAR INSPECTION DATE		

Arms Services Repair & Estimate System

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

Repair Inquiry

Repair Number: **RE00040782** Serial: 06611427 Model 700 Center Fire Caliber: 7.62 NATO M-24 (SWS) Repairman: Status: Closed 2/2/02 10:41:37 AM

Verify Repair

Address Information

Customer: Received From: Return To: Received From:

Name: TRANS OFFICER CRP TRANS OFFICER CRP

Address 1: BLDG 5207 BLDG 5207

Address 2: PO Box: PO Box:

City: FORT CAMPBELL FORT CAMPBELL

State: KY Zip Code: 42223 Country: US State: KY Zip Code: 42223 Country: US

FFL:

History / Status

Date	Code	User ID	Desc1
2/2/02 10:40:01	New	fortte	Repair Added
2/2/02 10:41:37	Closed	fortte	Closed at Expedite

☐ Shipping Hold
☐ InterFace Hold
☐ Estimate Sent
☐ Parts Received
☐ Passed Inspection
☐ Return As Received
☐ Has been Approved
☐ Internal Repair

Current Status: Closed
 2/2/02 10:41:37 AM
 fortte
 Sniper Systems
 Repair Location: ILN
 Current Location: ILN

Repair Search Refresh Close

Start | naglet | 2/14/02 | 2:40 PM | CAPS | NUM | 1.5 | SCFL | 2:40 PM

Serial Number: **C6611427**

Model: **700**



RE00040782

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611427.___0
FILE DATE AND TIME: 02/21/2002 02:52

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.128
The Average Y Centroid of the Five Target Set:	0.008
The Average Point of Impact of the Five Target Set:	0.128
The Average Mean Radius of the Five Target Set:	0.678
The Distance from POA to Centroid Target #1:	0.367
The Distance from Centroid Target #2 to Centroid Target #1:	0.425
The Distance from Centroid Target #3 to Centroid Target #1:	0.491
The Distance from Centroid Target #4 to Centroid Target #1:	0.593
The Distance from Centroid Target #5 to Centroid Target #1:	0.333

SERIAL NUMBER: C6611427. 0

TARGET NUMBER: 1

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.469	0.649
2:	-1.049	0.387
3:	-0.542	0.168
4:	-0.502	0.406
5:	0.396	-0.045
6:	0.773	0.315
7:	0.710	0.596

X CENTROID: -0.098

Y CENTROID: 0.354

POA TO CENTROID: 0.367

HORZ SPREAD: 1.822

VERT SPREAD: 0.694

GROUP SPREAD: 1.823

MIN RADIUS: 0.408

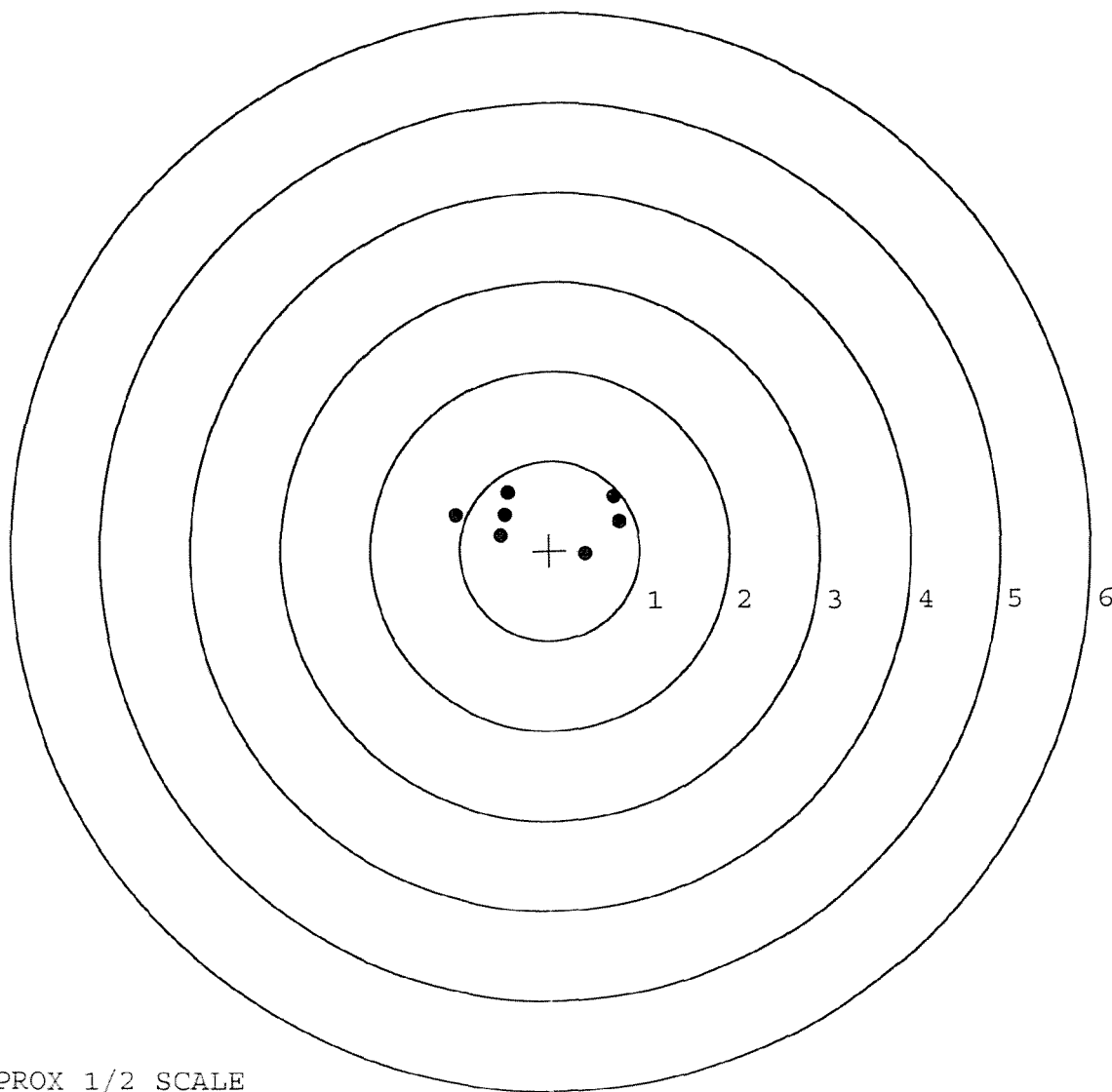
MAX RADIUS: 0.952

MEAN RADIUS: 0.666

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. 0

TARGET NUMBER: 2

FILE DATE: 02/21/2002

FILE TIME: 02:52

POINT#	X	Y
1:	-0.021	-0.318
2:	0.171	-0.016
3:	0.256	-0.105
4:	0.438	-0.053
5:	0.568	-0.243
6:	0.621	-0.366
7:	-0.637	-0.616
8:	-0.297	-0.415
9:	-0.295	0.935
10:	-0.011	0.872

X CENTROID: 0.079

Y CENTROID: -0.033

POA TO CENTROID: 0.086

HORZ SPREAD: 1.258

VERT SPREAD: 1.551

GROUP SPREAD: 1.591

MIN RADIUS: 0.093

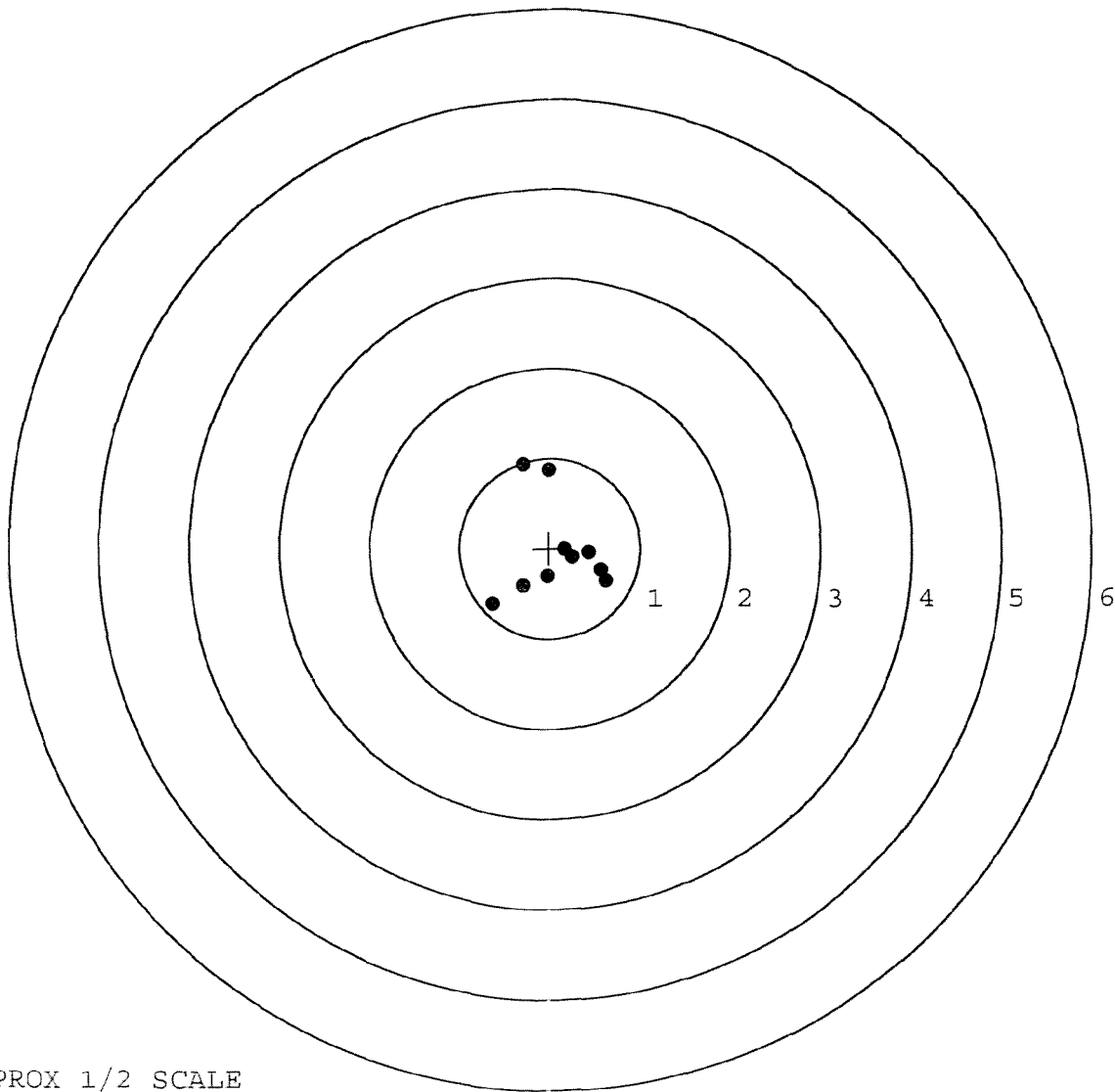
MAX RADIUS: 1.037

MEAN RADIUS: 0.552

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

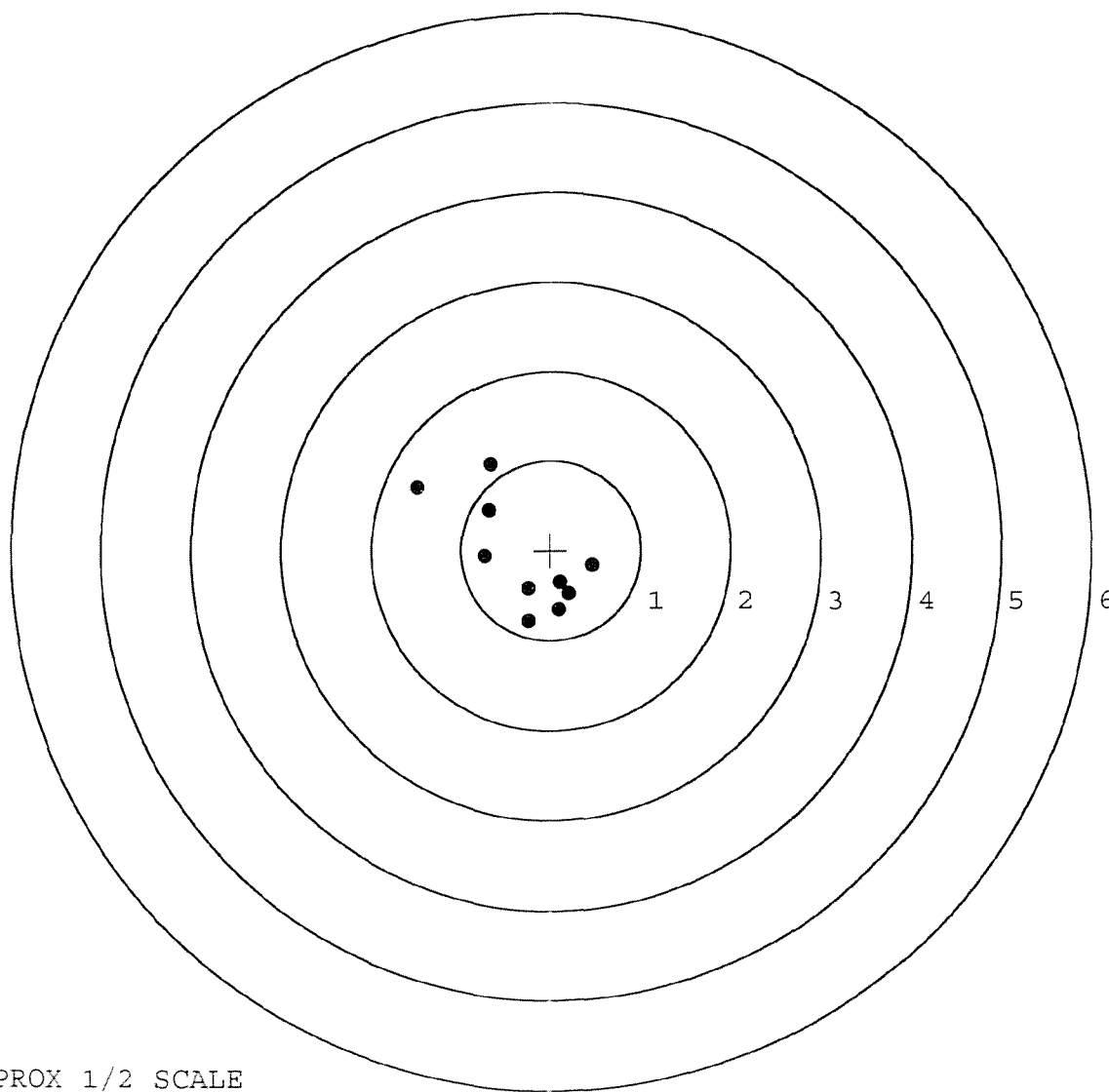


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0
TARGET NUMBER: 3
FILE DATE: 02/21/2002
FILE TIME: 02:52

POINT#	X	Y
1:	-0.667	0.961
2:	-0.689	0.452
3:	-0.737	-0.065
4:	-1.491	0.698
5:	-0.249	-0.787
6:	-0.253	-0.423
7:	0.095	-0.664
8:	0.111	-0.354
9:	0.203	-0.485
10:	0.464	-0.161

X CENTROID: -0.321
Y CENTROID: -0.083
POA TO CENTROID: 0.332
HORZ SPREAD: 1.955
VERT SPREAD: 1.748
GROUP SPREAD: 2.135
MIN RADIUS: 0.347
MAX RADIUS: 1.406
MEAN RADIUS: 0.730
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

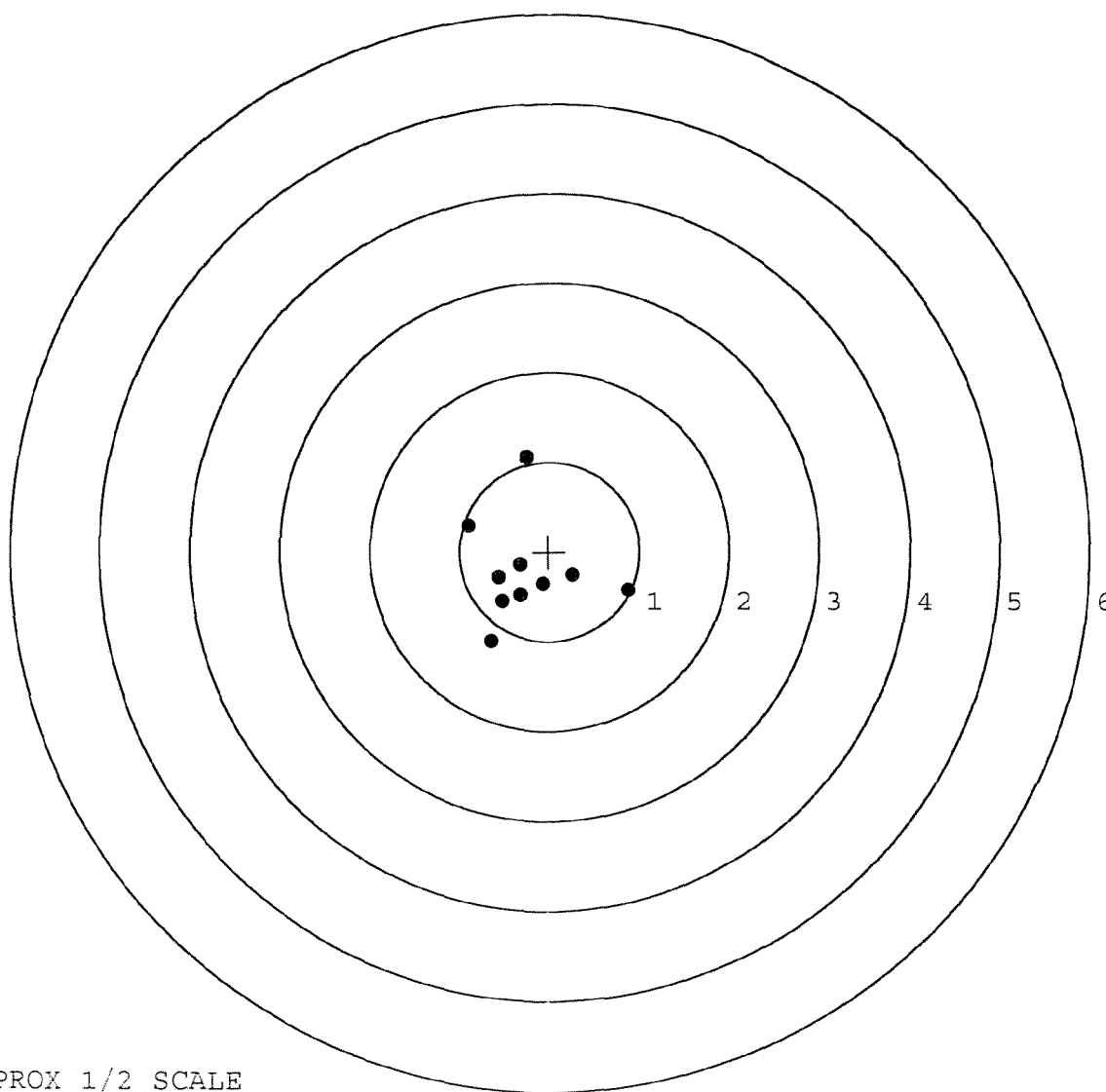


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0
TARGET NUMBER: 4
FILE DATE: 02/21/2002
FILE TIME: 02:52

POINT#	X	Y
1:	-0.255	1.050
2:	-0.903	0.292
3:	-0.561	-0.287
4:	-0.526	-0.555
5:	-0.644	-1.004
6:	-0.324	-0.492
7:	-0.069	-0.362
8:	0.265	-0.264
9:	0.875	-0.431
10:	-0.323	-0.150

X CENTROID: -0.246
Y CENTROID: -0.220
POA TO CENTROID: 0.331
HORZ SPREAD: 1.778
VERT SPREAD: 2.054
GROUP SPREAD: 2.091
MIN RADIUS: 0.104
MAX RADIUS: 1.270
MEAN RADIUS: 0.601
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

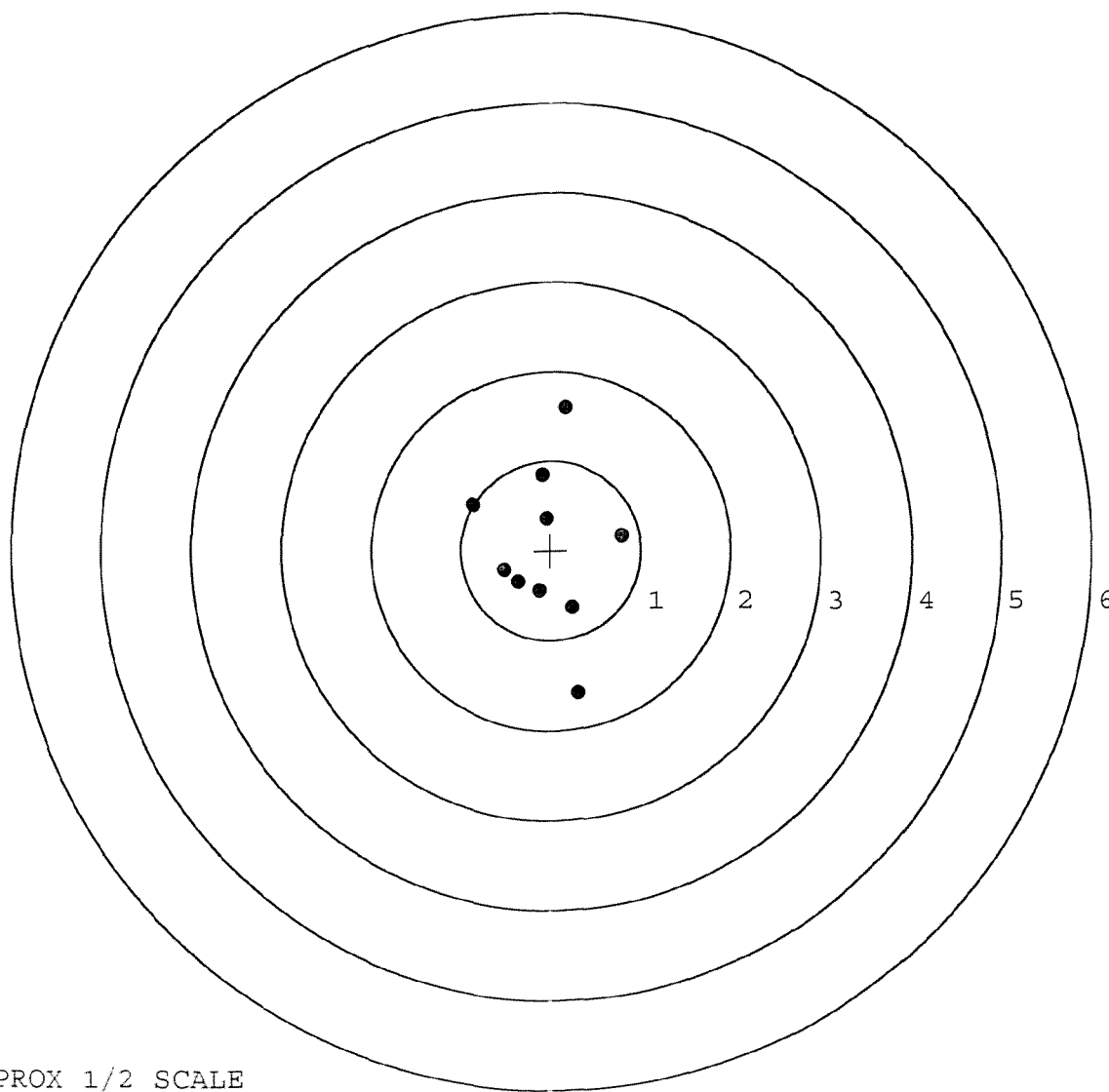


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611427. __0
TARGET NUMBER: 5
FILE DATE: 02/21/2002
FILE TIME: 02:52

POINT#	X	Y
1:	0.163	1.597
2:	-0.098	0.841
3:	-0.872	0.513
4:	-0.051	0.358
5:	-0.518	-0.214
6:	-0.131	-0.450
7:	0.241	-0.642
8:	0.310	-1.587
9:	0.785	0.168
10:	-0.361	-0.350

X CENTROID: -0.053
Y CENTROID: 0.023
POA TO CENTROID: 0.058
HORZ SPREAD: 1.657
VERT SPREAD: 3.184
GROUP SPREAD: 3.187
MIN RADIUS: 0.335
MAX RADIUS: 1.651
MEAN RADIUS: 0.841
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-97-C-242

R & E NUMBER 40782			
SERIAL NUMBER C-661 1427			
LOG-IN DATE 1-4-02			
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-6-02	OK
560 A	RE-BARREL AT CUSTOM SHOP	2/9/02	BSW
B	DRILL AND TAP	2/9/02	BSW
C	POLISH	2/11/02	OK
575	ASSEMBLE	2/21/02	OK
600	PROOF	2-11-02	RW
605	CHECK HEADSPACE	2-11-02	RW
610	DIS-ASSEMBLE GUN	2-11-02	RW
612	MAGNAFLUX		AL
615	ROLLMARK CALIBER		
618	ROTO-BLAST	2-16-02	STO
620	APPLY COATINGS	2-20-02	TA
625 A	FINAL ASSEMBLY	2-21-02	OK
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	2-21-02	AC
655	FINAL INSPECT	2-22-02	
660	PACK	2-22-02	OK
		SHIP DATE	
		QAR INSPECTION DATE	

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

Remington[®]

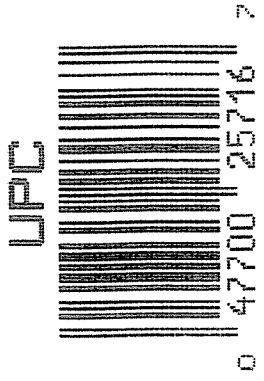
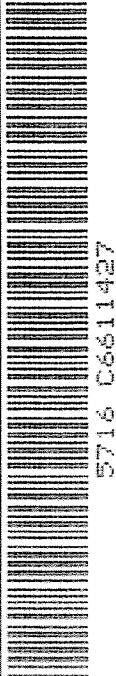
MODEL 700TM H24

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

20

SERIAL NO.
C6611427

ORDER NO.
5716



M-24

Repaired
Stock

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611427

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	3 25	91	RW
600	Proof	3 25	91	RW
607	Check Headspace	3 25	91	RW
610	Dis-assemble Gun	3 25	91	RW
612	Magnaflux Barrel Action	3 28	91	KR
	Magnaflux Bolt	3 28	91	CR
615	Rollmark Caliber	3 28	91	28
617	Drill and Tap Sight Holes	APR	3 1991	K-B
618	Polish Barrel	APR	3 1991	CR B
620	Apply Coatings (Barrel Action)		4-11-91	TJA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/16/91	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/16/91	RW
	C) Inspect Ejector Hole for Chamfer		4/16/91	RW
	D) Oil Firing Pin Ass'y		4/16/91	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/1/91	91

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	7	6	7			5-29-91	DH
	G) Safety Off Force	4	4	4			5-29-91	DH
	H) Trigger Pull Test & Retainability						5/1/91	JP
	I) Firing Pin Indent	.022	.022	.022			5-2-91	DH
	J) Assemble Stock						5/13/91	RW
	K) Assemble Swivel Studs						5-21-91	DH
	L) Attach Front and Rear Sight Assemblies						5/13/91	RW
	M) Iron Sight Alignment						5/13/91	RW
	N) Detach Front & Rear Sights & place in numbered container						5/13/91	RW
	O) Attach Scope to Rifle						5/13/91	RW
	P) Detach & Attach Scope 20 Times						5/13/91	RW
640	Gallery Target & Test						5-14-91	DH
	A) Time						5-14-91	DH
	B) Malfunctions						5-14-91	DH
	C) Pierced Primers						5-14-91	DH
	D) Optical Clarity of Scope						5-14-91	DH
645	Inspect for Live Ammo						5-14-91	DH
655	Final Inspection						5-21-91	DH
	A) Headspace							
	B) Trigger Pull	2.15	2.19	2.22	2.35	2.16	5/20/91	JP
	C) Function						5-21-91	DH
660	Pack						6-19-91	VF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C-6611427

DATE 5/1/91

TESTER JH.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.47	2.41	2.35	2.15	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.47	2.39	2.42	2.19	
PULL #3	2.30	2.37	2.40	2.22	
PULL #4	2.39	2.35	2.38	2.35	
PULL #5	2.42	2.31	2.26	2.16	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.26	3.50		
PULL #2	3.47	3.55		
PULL #3	3.28	3.58		
PULL #4	3.49	3.60		
PULL #5	3.47	3.49		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.24	4.32		4.42
PULL #2	4.17	4.35		4.30
PULL #3	4.37	4.24		4.48
PULL #4	4.27	4.37		4.52
PULL #5	4.32	4.33		4.56
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611427
14 May 1991

CENTROIDAL DISTANCES

0 TO 1	.113217
1 TO 2	.394981
1 TO 3	.445458
1 TO 4	.0570088
1 TO 5	.0538145

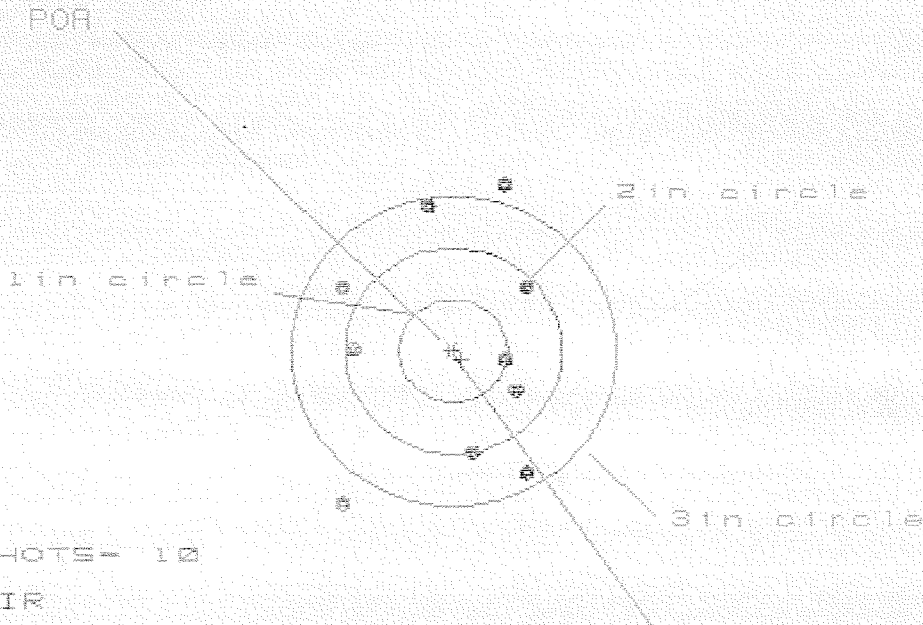
$\frac{4^2}{9}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .063
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0772
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0996436
THE AMR FOR THIS RIFLE IS: .9966

14 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611427

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 1.719

VS= 3.078

GS= 3.412

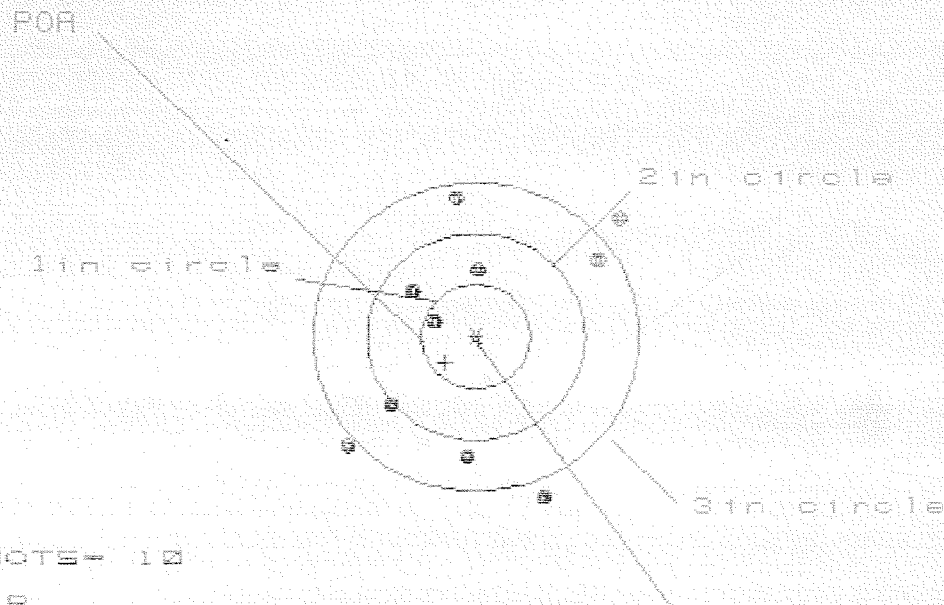
CENTROID #

PATTERN #		1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.719	.507	.652
MINIMUM X	:	-1.001	-1.100	-1.055
MAXIMUM Y	:	1.607	1.443	1.390
MINIMUM Y	:	-1.471	-1.312	-1.131
CENTROID X	:	-.077	.034	-.011
CENTROID Y	:	.083	.247	.066
POA TO CENTROID in.	:	.113	.249	.067
MIN RADIUS	:	.480	.459	.412
MEAN RADIUS	:	1.126	1.042	.965
MAX RADIUS	:	1.700	1.488	1.412
HORIZONTAL SPREAD	:	1.719	1.707	1.707
VERTICAL SPREAD	:	3.078	2.755	2.521
EXTREME SPREAD	:	3.412	2.760	2.654
NUMBER IN ONE INCH CIRCLE =		1		
NUMBER IN TWO INCH CIRCLE =		5		
NUMBER IN THREE INCH CIRCLE =		8		

14 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611427

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 3

3 in = 7

HS= 2.410

VS= 2.918

GS= 3.249

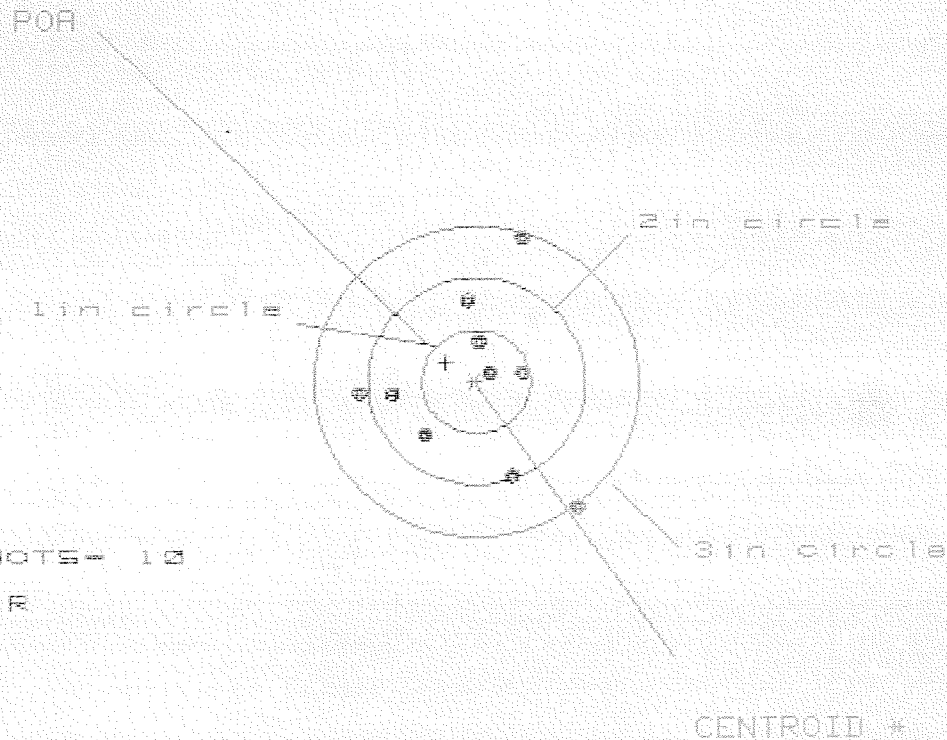
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.277	1.242	1.334
MINIMUM X	-1.133	-.991	-.899
MAXIMUM Y	1.322	1.451	1.267
MINIMUM Y	-1.596	-1.467	-1.174
CENTROID X	.280	.138	.046
CENTROID Y	.252	.123	.307
POA TO CENTROID in.	.376	.185	.310
MIN RADIUS	.349	.304	.112
MEAN RADIUS	1.141	1.058	.934
MAX RADIUS	1.724	1.641	1.506
HORIZONTAL SPREAD	2.410	2.233	2.233
VERTICAL SPREAD	2.918	2.918	2.441
EXTREME SPREAD	3.249	3.009	2.852
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	7		

14 May 1991

FILE:\PATTERNING\CENTERFIRE_PATT\CG611427

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 3

2in = 7

3in = 9

HS = 2.060

VS = 2.552

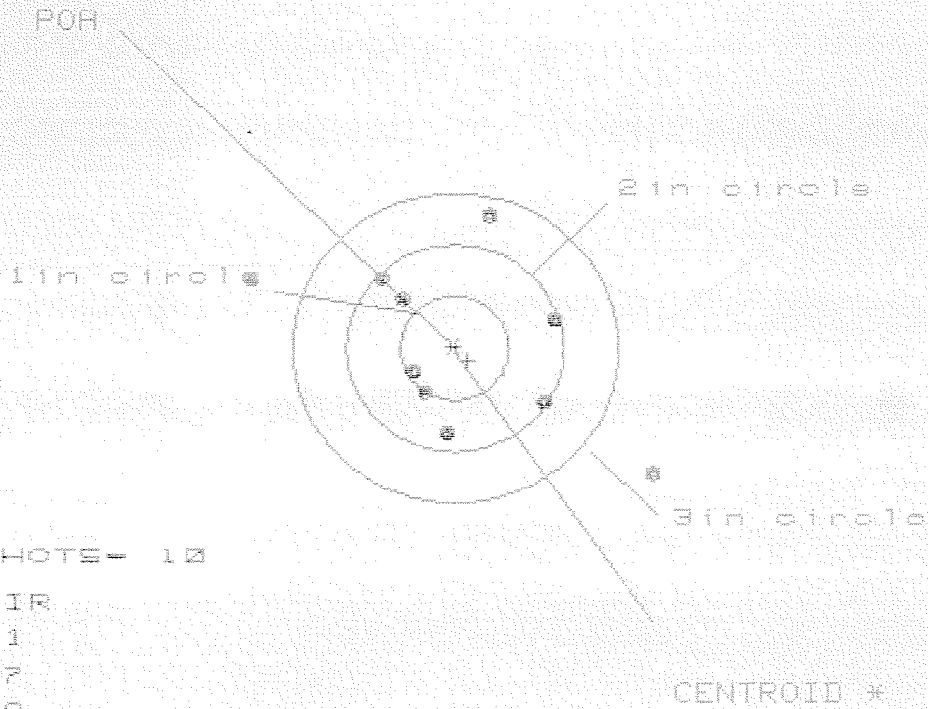
GS = 2.602

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.970	.568	.560
MINIMUM X	:	-1.090	-.983	-.911
MAXIMUM Y	:	1.345	1.211	.842
MINIMUM Y	:	-1.207	-1.045	-.893
CENTROID X	:	.275	.168	.097
CENTROID Y	:	-.190	-.056	-.200
POA TO CENTROID in.	:	.335	.177	.229
MIN RADIUS	:	.178	.218	.329
MEAN RADIUS	:	.831	.740	.671
MAX RADIUS	:	1.548	1.338	1.025
HORIZONTAL SPREAD	:	2.060	1.551	1.472
VERTICAL SPREAD	:	2.552	2.256	1.735
EXTREME SPREAD	:	2.602	2.260	1.770
NUMBER IN ONE INCH CIRCLE =			3	
NUMBER IN TWO INCH CIRCLE =			7	
NUMBER IN THREE INCH CIRCLE =			9	

14 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C0811427

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 7

3 in = 8

HS= 3.641

VS= 2.559

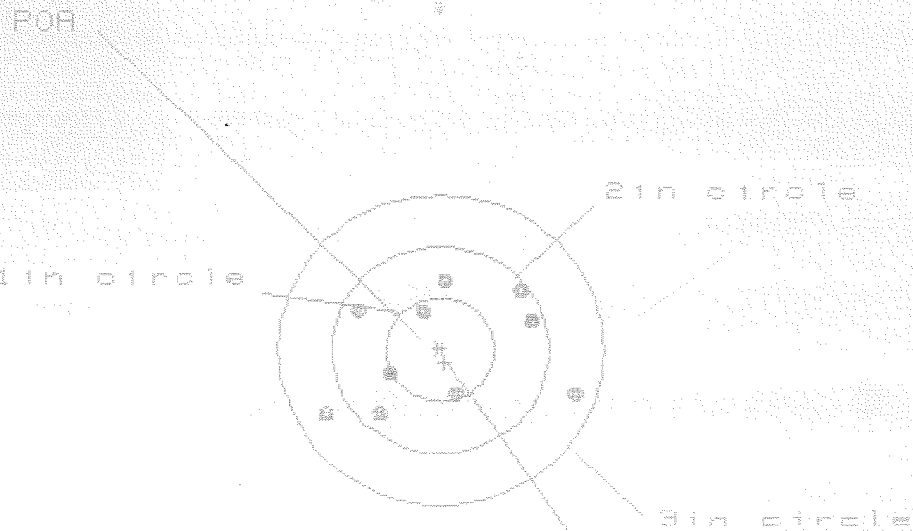
GS= 4.100

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.781	1.090	.882
MINIMUM X	-1.860	-1.662	-.710
MAXIMUM Y	1.308	1.169	1.230
MINIMUM Y	-1.251	-.996	-.935
CENTROID X	-.122	-.320	-.112
CENTROID Y	.118	.257	.196
POA TO CENTROID In.	.170	.410	.225
MIN RADIUS	.451	.416	.503
MEAN RADIUS	1.088	.946	.848
MAX RADIUS	2.177	1.734	1.279
HORIZONTAL SPREAD	3.641	2.752	1.592
VERTICAL SPREAD	2.559	2.165	2.165
EXTREME SPREAD	4.100	2.909	2.218
NUMBER IN ONE INCH CIRCLE	= 1		
NUMBER IN TWO INCH CIRCLE	= 7		
NUMBER IN THREE INCH CIRCLE	= 8		

14 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8611427

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 2

2in = 8

3in = 10

HS= 2.324

VS= 1.306

CS= 2.331

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	1.265
MINIMUM X	-1.059
MAXIMUM Y	.678
MINIMUM Y	-.628
CENTROID X	-.041
CENTROID Y	.123
POA TO CENTROID in.	.130
MIN RADIUS	.375
MEAN RADIUS	.797
MAX RADIUS	1.332
HORIZONTAL SPREAD	2.324
VERTICAL SPREAD	1.306
EXTREME SPREAD	2.331
NUMBER IN ONE INCH CIRCLE	= 2
NUMBER IN TWO INCH CIRCLE	= 8
NUMBER IN THREE INCH CIRCLE	= 10

RECEIVING AND ESTIMATING REPORT

COMMENTS

Scope #
0158ORDER
R 95-16536

INITIAL CUSTOMER ORDER NO.

W/ULTRA 10X-M3A SCOPE M-24

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

06/13/95

06/14/95

AL 3-91

C6611427

700 7.62

NATO

ACCESSORIES

HARD CASE

SCOPE MNTS

SCOPE BASE

FROM:

SHIP TO:

SUPPLY & SERVICE DIVISION
WHSE. 224
FT. BENNING

GA 31905

SUPPLY & SERVICE DIVISION
WHSE. 224
FT. BENNING
GA 31905

CUST NO: 080509 C-D.DL

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

UPS

GUN CONDITION

- ☐ NEW
☐ LIGHTLY WORN
☐ WORN
☐ VERY WORN
☐ UNREPAIRABLE
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN

AMMO

FUNCTION

FINISH

ACCURACY

FIT

INSPECT

CYCLE

A1

B1

TRIGGER GROUP

B2

BOLT ASSY.

B3

BARREL ASSY.

New Barrel

REC. ASSY.

B5

WOOD

C1

D3

METAL

C2

MAIN FAULT

Barrel Shot out

PARTS

COMMENTS

Barrel - 96003

Re powder Coat Trigger Guard
Assy Front & Rear Sight
Bases
Re Zinc Scope Base, Rings &
Swivel Studs

W52H093172H235

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6825 REV. 1/84

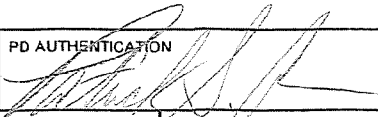
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400076744

For use of this form, see TM 38-750; the proponent agency is the Office of the Deputy Chief of Staff for Logistics.

DA FORM 2404
1 APR 79

Replaces edition of 1 Jan 64, which will be used

MAINTENANCE REQUEST				PAGE NO. 1	NO OF PAGES 1	REQUIREMENTS CONTROL SYMBOL CSGLD - 1047(R1)			
For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG									
SECTION I - EQUIPMENT DATA									
CONTROL NUMBER		WORK ORDER NO.		WESDC		ORG. PD 03		PD AUTHENTICATION 	
☒ Work Request ☐ MWO ☐ Warranty Claim		1A. ORGANIZATION C Co. 2/29 IN. REGT. USASS		B. LOCATION FT. BENNING GA. 31905				C. UNIT IDENT CODE	
2. SERIAL NO. C6611427		3. NOUN NOMENCLATURE RIFLE SNIPER		4. LINE NO. R95387		5. MODEL M24		6. NATIONAL STOCK NUMBER 1005012402136	
7A. MAINTENANCE ACTIVITY		B. LEVEL	8. UTILIZATION CODE	9A. MCSR ITEM	9B. ERC	9C. PACING ITEM	10. HOURS	11. MILES	12. ROUNDS
14. FAILURE DETECTED DURING (Select one - use ☒ or X)		15. FIRST INDICATION OF TROUBLE (Select one - use ☒ or X)							
☐ A Sch. Main. ☒ B Handling		☐ C Test ☐ D Normal Op		☐ E Storage ☐ F Inspection		☐ G Flight ☐ H Other		☐ 068 Inoperative ☐ 008 Noisy	
						☐ 258 Overheating ☐ 387 Low Performance		☐ 790 Out of Adjustment ☒ Other	
16A. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs).									
SEE ATTACHED DA 2404									
B. REMARKS									
POC CPL ALLEN 706-544-6693/6006									
SECTION II - WORK ACCOMPLISHED									
17A. REPAIR ORGANIZATION/ACTIVITY				C. UNIT IDENT. CODE		18. TYPE ORGANIZATION/ACTIVITY ACCOMPLISHING WORK (Select one - use ☒ or X)		19. AMS ACCT CODE	
B. LOCATION						☐ 1 TOE ☐ 2 TD ☐ 3 Contractor			
20A. ACT. CODE	B. FAILURE CODE	C. COMPONENT/PART NOUN, SVC, OR MWO NO.			D. MANHOURS (Hrs. & tenths)	E. NATIONAL STOCK NUMBER	F. PART SOURCE CODE	G. QTY.	H. PARTS COST
		(1) CB CODE	(2) REF DESIGN	(3) MFR. CODE					
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					.				\$
					I. TOTAL MANHOURS	J. TOTAL MANHOURS COST	K. TOTAL PARTS COST		
						\$	\$		
21. DELAY (Select One)		☐ 1 Parts	☐ 2 Manpower	☐ 3 Facilities	☐ 4 Funds	☐ 5 Tools	22. Data Transcribed		
23. SUBMITTED BY 	24. RECEIVED BY		25. WORK STARTED BY		26. INSPECTED BY		27. ACCEPTED BY		28. DISPOSITION (Select One)
JULIAN DATE 159	JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE		☐ A To User ☐ B To Stock ☐ C Salvaged
									☐ D Evacuated ☐ E Cannibalization

Final Inspection

Sn: C6611427

DATE REC'D: 6/13/95

DATE RET'D:

Auditor: RW

Item:

Barrel Assy.

- ☒ BARREL
- ☒ RECEIVER
- ☒ FRONT SIGHT BLOCK
- ☒ REAR SIGHT BLOCK
- ☒ SCREWS
- ☒ FINISH

Scope Assy.

- ☒ Scope
- ☒ Scope Rings
- ☒ Mounting Screws
- ☒ Mounting Base
- ☒ Screws
- ☒ FINISH
- ☒ Looseness
- ☒ CLARITY

Misc.

- ☐ DD-250
- ☐ BAR CODE
- ☐ PACKAGING

Item:

Stock Assy.

- ☒ Stock
- ☒ Sling Swivel Studs
- ☒ ADJUSTABLE BUTT PLATE
- ☒ LOCK NUTS
- ☒ BARREL CLEARANCE
- ☒ COLOR/FINISH

Systems Case

- ☒ Scope Case
- ☒ Iron SIGHTS
- ☐ Deployment Kit

Trigger

- ☒ SAFETY OPERATION
- ☒ SET

Comments:

CONTRACT # DAAA21-87-C-0086

New Barrel

GUN SERIAL # C6611427

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock		6/21/95	RW
600	Proof		6/21/95	RW
607	Check Headspace		6/21/95	RW
610	Dis-assemble Gun		6/21/95	RW
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		6/24/95	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6/24/95	RW
	C) Inspect Ejector Hole for Chamfer		6/24/95	RW
	D) Oil Firing Pin Ass'y		6/24/95	RW
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force					
	G) Safety Off Force					
	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				6/27/95	RW
	A) Time					
	B) Malfunctions					
	C) Pierced Primers					
	D) Optical Clarity of Scope					
645	Inspect for Live Ammo				6/27/95	RW
655	Final Inspection				6/27/95	RW
	A) Headspace				6/27/95	RW
	B) Trigger Pull				6/27/95	RW
	C) Function				6/27/95	RW
660	Pack					

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611427
11 Jul 1995

CENTROIDAL DISTANCES

0 TO 1	.258054
1 TO 2	.477546
1 TO 3	.310015
1 TO 4	.342161
1 TO 5	.257329

215 <----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0398
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2168
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .220423

THE AMR FOR THIS RIFLE IS: .898

11 JUL 1995

FILE:/PATTERNING/CENTERFIRE_PATT/C6811427

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 1

2in = 7

3in = 8

HS= 2.454

VS= 2.532

GS= 2.802

CENTROID *

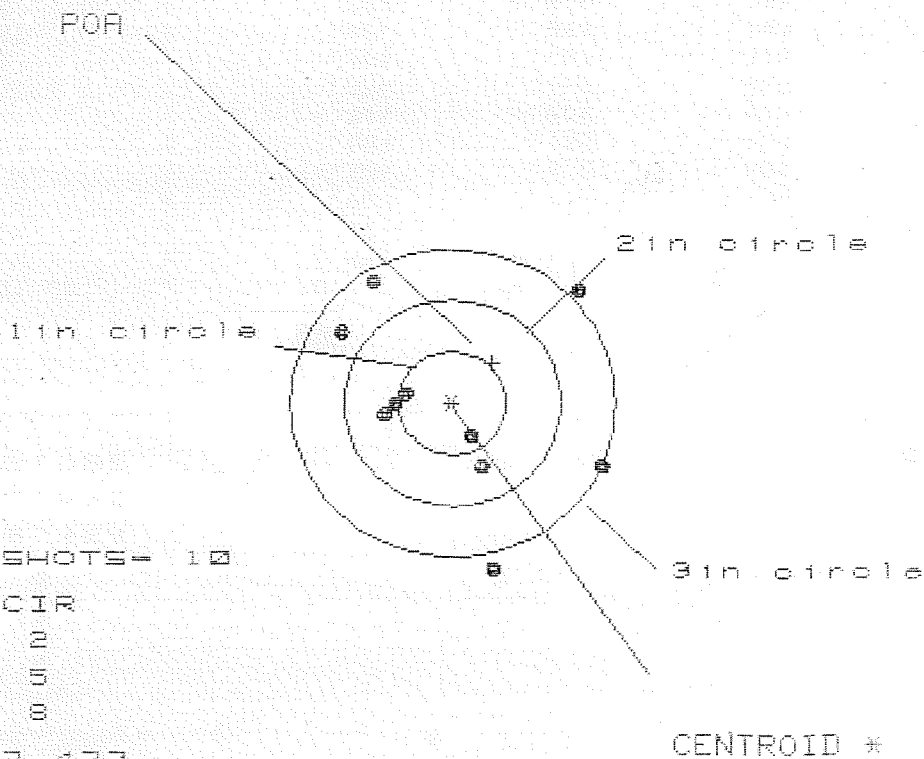
PATTERN # : 1

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.551	1.480	.912
MINIMUM X	:	-.903	-.974	-.789
MAXIMUM Y	:	.927	.749	.706
MINIMUM Y	:	-1.605	-.410	-.453
CENTROID X	:	.084	.155	-.029
CENTROID Y	:	-.244	-.066	-.023
POA TO CENTROID in.	:	.258	.169	.037
MIN RADIUS	:	.321	.437	.412
MEAN RADIUS	:	.952	.856	.743
MAX RADIUS	:	1.729	1.519	1.015
HORIZONTAL SPREAD	:	2.454	2.454	1.702
VERTICAL SPREAD	:	2.532	1.159	1.159
EXTREME SPREAD	:	2.802	2.454	1.818
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	7		
NUMBER IN THREE INCH CIRCLE	=	8		

11 JUL 1995

FILE:PATTERNING/CENTERFIRE_PATT/C8811427

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 8

HS= 2.423

VS= 2.792

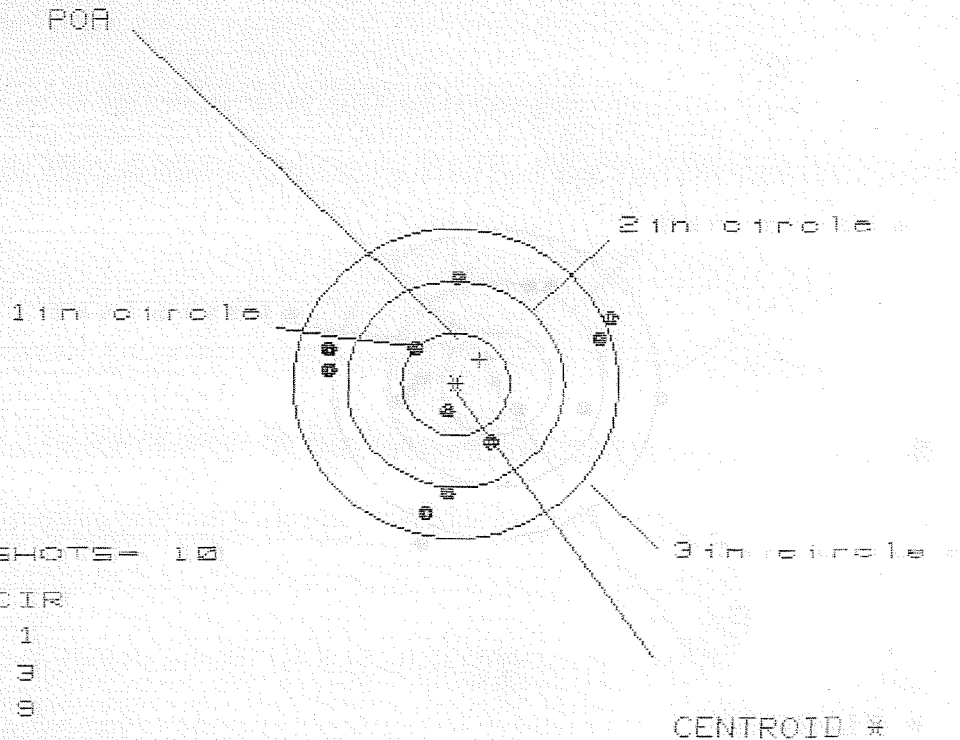
GS= 2.984

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.362	1.403	1.555
MINIMUM X	:	-1.061	-1.020	-.867
MAXIMUM Y	:	1.228	1.054	1.167
MINIMUM Y	:	-1.564	-.759	-.646
CENTROID X	:	-.371	-.412	-.565
CENTROID Y	:	-.389	-.215	-.328
POA TO CENTROID in.	:	.538	.465	.653
MIN RADIUS	:	.329	.406	.261
MEAN RADIUS	:	.991	.927	.792
MAX RADIUS	:	1.607	1.595	1.684
HORIZONTAL SPREAD	:	2.423	2.423	2.423
VERTICAL SPREAD	:	2.792	1.813	1.813
EXTREME SPREAD	:	2.984	2.735	2.735
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			8	

11 JUL 1995

FILE:/PATTERNING/CENTERFIRE_PATT/C8511427

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 1

2in = 3

3in = 6

HS= 2.671

VS= 2.307

GS= 2.713

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.464	1.493	.674
MINIMUM X	-1.207	-1.045	-.858
MAXIMUM Y	1.080	1.150	1.218
MINIMUM Y	-1.227	-1.157	-1.089
CENTROID X	-.226	-.388	-.575
CENTROID Y	-.241	-.311	-.379
POA TO CENTROID in.	.330	.498	.688
MIN RADIUS	.276	.292	.330
MEAN RADIUS	1.030	.945	.858
MAX RADIUS	1.594	1.587	1.261
HORIZONTAL SPREAD	2.671	2.538	1.532
VERTICAL SPREAD	2.307	2.307	2.307
EXTREME SPREAD	2.713	2.557	2.319
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	9		

11 Jul 1995

FILE:/PATTERNING/CENTERFIRE_PATT/C8611427

CENTERFIRE PATTERNS # 4

POR

2 in circle

1 in circle

0 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 4

2 in = 9

3 in = 10

HS= .768

VS= 1.963

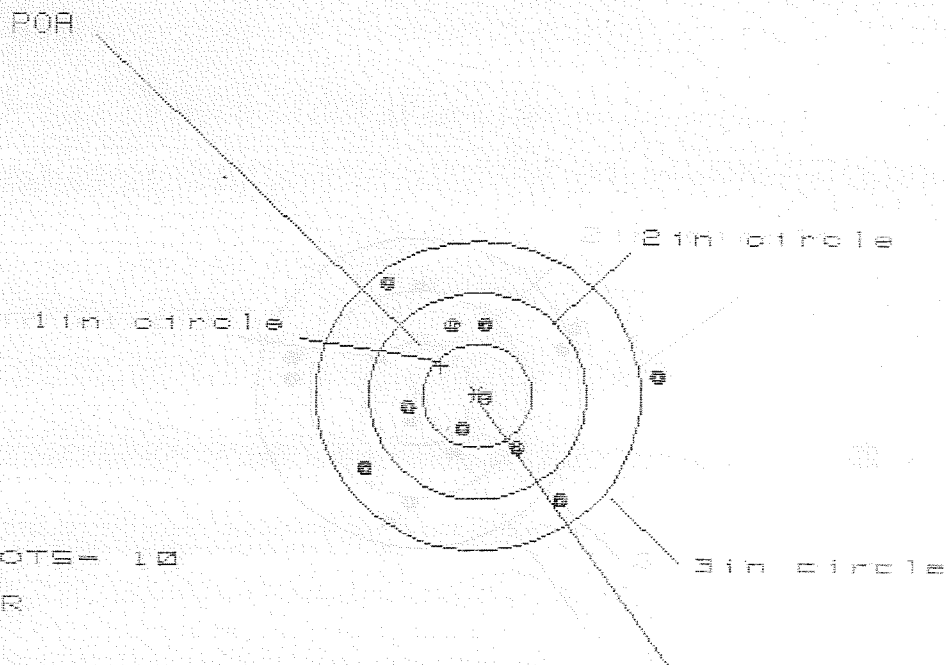
GS= 1.963

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.446	.422	.396
MINIMUM X	-.323	-.346	-.372
MAXIMUM Y	1.024	.913	.810
MINIMUM Y	-.940	-.826	-.675
CENTROID X	-.023	-.000	.026
CENTROID Y	.081	-.033	.070
POR TO CENTROID in.	.084	.033	.075
MIN RADIUS	.389	.356	.409
MEAN RADIUS	.655	.600	.567
MAX RADIUS	1.044	.996	.891
HORIZONTAL SPREAD	.768	.768	.768
VERTICAL SPREAD	1.963	1.739	1.485
EXTREME SPREAD	1.963	1.843	1.654
NUMBER IN ONE INCH CIRCLE =		4	
NUMBER IN TWO INCH CIRCLE =		9	
NUMBER IN THREE INCH CIRCLE =		10	

11 JUL 1995

FILE:/PATTERNING/CENTERFIRE_PATT/C6611427

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.706

VS= 2.031

GS= 2.840

CENTROID #

PATTERN #			
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.647	.991	.903
MINIMUM X	-1.059	-.877	-.964
MAXIMUM Y	1.042	1.061	.843
MINIMUM Y	-.989	-.970	-.838
CENTROID X	.337	.155	.242
CENTROID Y	-.291	-.310	-.443
POA TO CENTROID in.	.446	.346	.505
MIN RADIUS	.085	.265	.164
MEAN RADIUS	.862	.766	.690
MAX RADIUS	1.655	1.387	1.232
HORIZONTAL SPREAD	2.706	1.868	1.868
VERTICAL SPREAD	2.031	2.031	1.580
EXTREME SPREAD	2.840	2.645	1.974
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		9	