

65225136

MODEL 700™ M24

Model 700 M24™

Action

Barrel Length

Capacity

Order No. 5716

* Includes 1 in chamber.

Remington

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R93-15587

INITIAL CUSTOMER ORDER NO.

ATTN: FRED MARTIN M-24 W/10X-M3A SCOPE

FPS

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
07/21/93	07/21/93	EM 10-92	C6225136		700 7.62 NATO
ACCESSORIES		W/STUDS	HARD CASE	SCOPE MNTS	SCOPE BASE
W/1 SWIVEL					

FROM:

SHIP TO:

CONSOLIDATED EQUIP POOL
ATTN TERRY MAJORS
FT BENNING GA 31905

CONSOLIDATED EQUIP POOL
ATTN TERRY MAJORS
FT BENNING GA 31905

CUST NO:059697 C.O.D

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			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
METAL			C2			

MAIN FAULT

PARTS

COMMENTS

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
GALLERY TESTER	DATE	DATE	DATE	DATE	DATE

OFFICE COPY

RD6925 REV. 1/92

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400049785

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 <i>[Signature]</i>	
☒ Work Request ☐ MWO ☐ Warranty Claim		1A. ORGANIZATION Consolidated Equip Pool		B. LOCATION Ft. Benning, GA 31905		C. UNIT IDENT CODE W04255			
2. SERIAL NO. C6225136		3. EQUIPMENT NOMENCLATURE Rifle Sniper		4. LINE NO. R95387		5. MODEL M24		6. NATIONAL STOCK NUMBER 1008 01 240 2136	
7A. MAINTENANCE ACTIVITY		B. LEVEL H	8. UTILIZATION CODE Q	9A. MCSR ITEM	9B. ERC	9C. PACING ITEM	10. HOURS	11. MILES	12. ROUNDS
									13. STARTS
14. FAILURE DETECTED DURING (Select one - use ☒ or X)					15. FIRST INDICATION OF TROUBLE (Select one - use ☒ or X)				
☐ A Sch. Main. ☐ C Test ☐ E Storage ☐ G Flight ☐ B Handling ☒ D Normal Op ☐ F Inspection ☐ H Other					☐ 068 Inoperative ☐ 258 Overheating ☐ 790 Out of Adjustment ☐ 008 Noisy ☐ 387 Low Performance ☒ 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									
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 <i>[Signature]</i>		24. RECEIVED BY		25. WORK STARTED BY		26. INSPECTED BY		27. ACCEPTED BY	
JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE	
					28. DISPOSITION (Select One)				
					☐ A To User ☐ D Evacuated ☐ B To Stock ☐ E Cannibalization ☐ C Salvaged				

[illegible]

Replaces edition of 1 Jan 64, which will be used

A5AAW1 1005-01-240-2136 EA 00004 W33BQ9 3194-0102 CMBBAN MCZ 03 AWI AF 5145.00

Supply & Services Division Remington Arm Co. Inc.
Box 224 ATTN: Custom Shop
Fort Benning, GA 31905-5182 14 Hoefler Ave.
Ellington, NY 13357

Contract: #DAA21-87-G001

20580.00

3194 F 4
SN: C6225117, 35896620
C6225236, C6225131

REF: W33V5Z 3189-0001

Rifle 7.62 MM M24 (Sniper)

RT-3196

Bx
Contains 236

RT-3196

4 26

SHIP US REGISTERED
RETURN RECEIPT REQUESTED

PHILADELPHIA

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 92-21073

INITIAL
FPS

CUSTOMER ORDER NO.

M-24 W/ULTRA 10X-M3A SCOPE

DATE RECEIVED
10/13/92

DATE OPENED
10/13/92

DATE CODE
K1 5-88

SERIAL NUMBER
C6225136

NEW SERIAL NUMBER

MODEL AND GRADE
700 7.62

NATO/SWS

ACCESSORIES

W/STUDS

W/SWIVELS

SCOPE MNTS

SCOPE BASE

HARD CASE

FROM:

CONSOLIDATED EQUIP POOL
ATTN TERRY MAJORS
FT BENNING

GA 31905

SHIP TO:

CONSOLIDATED EQUIP POOL
ATTN TERRY MAJORS
FT BENNING

GA 31905

CUST NO: 059697 C.O.D

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

CLEAN/TEST

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

E1

F1

BOLT ASSY.

B3

E2

F2

BARREL ASSY.

B4

D1

E3

F3

REC. ASSY.

B5

D2

E4

F4

WOOD

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PARTS

COMMENTS

REPLACE BARREL
FRONT SIGHT BASE

REFINISH BAR/REC/TARGET

REPAIR REAR SIGHT

MILSTRIP:

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6925 REV. 1/92

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400049790

CONTROL COPY 3

M2400049791

DA FORM 2404
1 APR 79

Replaces edition of 1 Jan 64, which will be used

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80	
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WAREHOUSE LOCATION				TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		UFC		NMFC		FREIGHT RATE		DOCUMENT DATE		MAT COND		QUANTITY																																																																																																																																									
SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED)														FREIGHT CLASSIFICATION NOMENCLATURE														SN: B6896599, C6725136																																																																																																																																			
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W														Rifle 7.62 MM M24 (Sniper)																																																																																																																																																	
SELECTED BY AND DATE				TYPE OF CONTAINER(S)				TOTAL WEIGHT				RECEIVED BY AND DATE				INSPECTED BY AND DATE																																																																																																																																															
PACKED BY AND DATE				NO OF CONTAINER(S)				TOTAL CUBE				WAREHOUSED BY AND DATE				WAREHOUSE LOCATION																																																																																																																																															
SHIP US REGISTERED																																																																																																																																																															
RETURN RECEIPT REQUESTED																																																																																																																																																															
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FIRST DESTINATION ADDRESS														DATE SHIPPED																																																																																																																																																	
13 TRANSPORTATION CHARGEABLE TO														14 BLADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)														15 RECEIVER'S DOCUMENT NUMBER																																																																																																																																			

DD Form 1348-1, SEP 87

Jun 86 edition may be used.

FORM APPROVED. OMB NO. 0704-0188

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225136
4 Nov 1992

CENTROIDAL DISTANCES

0 TO 1 .130602
1 TO 2 .668887
1 TO 3 .533634
1 TO 4 .277683
1 TO 5 .180602

$\frac{x^2 + y^2}{2}$

<----POA

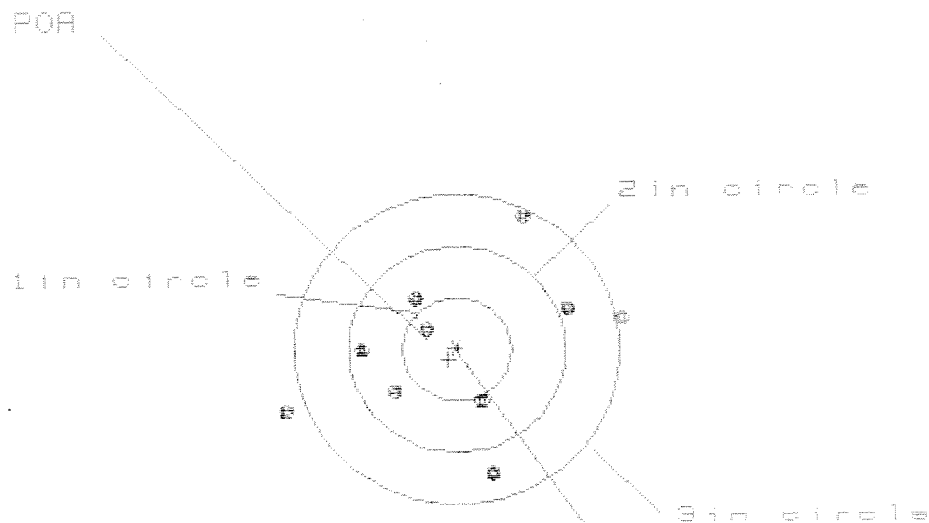
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1618
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0496
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .169232

THE AMR FOR THIS RIFLE IS: 1.026

4 Nov 1992

FILE:/PATTERNING/CENTERFIRE_PATT/06225136

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS= 3.075

VS= 2.551

GS= 3.192

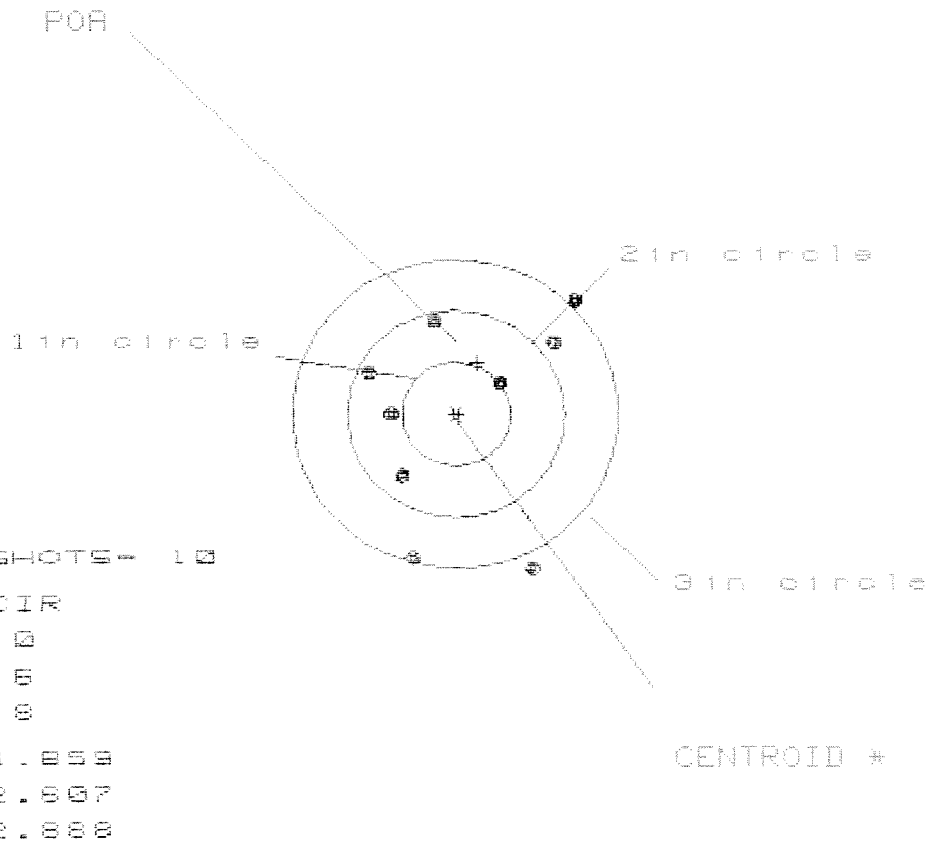
CENTROID +

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.533	1.361	.979
MINIMUM X	-1.542	-1.051	-.880
MAXIMUM Y	1.330	1.264	1.289
MINIMUM Y	-1.222	-1.287	-1.262
CENTROID X	.079	.251	.080
CENTROID Y	.104	.169	.144
POA TO CENTROID in.	.130	.302	.165
MIN RADIUS	.356	.497	.340
MEAN RADIUS	1.017	.959	.871
MAX RADIUS	1.652	1.376	1.438
HORIZONTAL SPREAD	3.075	2.412	1.859
VERTICAL SPREAD	2.551	2.551	2.551
EXTREME SPREAD	3.193	2.566	2.566
NUMBER IN ONE INCH CIRCLE =	1	5	8
NUMBER IN TWO INCH CIRCLE =			
NUMBER IN THREE INCH CIRCLE =			

4 Nov 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6225136

CENTERFIRE PATTERNS # 2

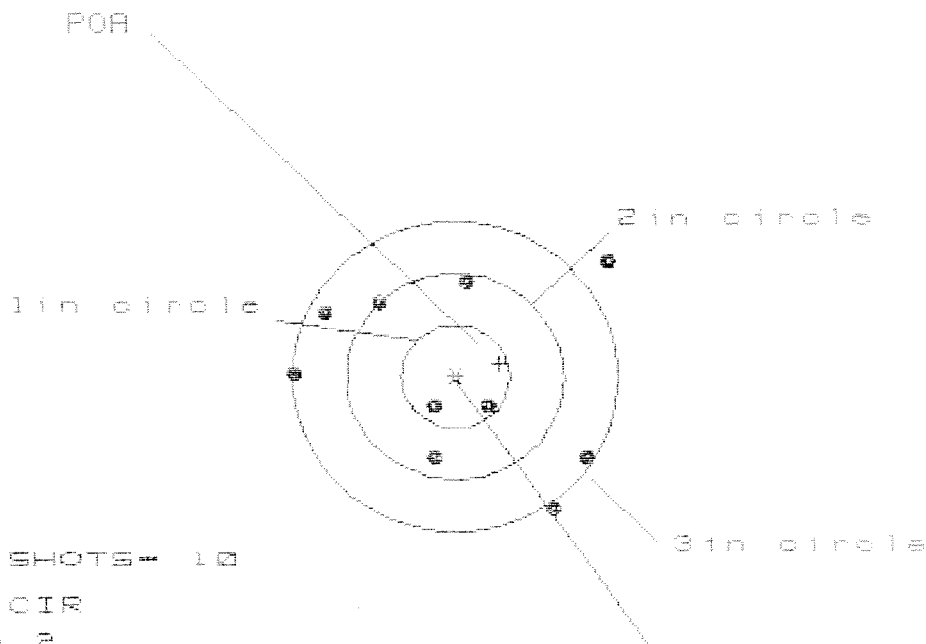


PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.879	1.160	1.158
MINIMUM X	:	-.788	-.699	-.554
MAXIMUM Y	:	1.109	.943	.856
MINIMUM Y	:	-1.498	-1.522	-1.484
CENTROID X	:	-.282	-.283	-.428
CENTROID Y	:	-.503	-.337	-.455
POA TO CENTROID in.	:	.542	.440	.624
MIN RADIUS	:	.518	.500	.350
MEAN RADIUS	:	1.011	.905	.799
MAX RADIUS	:	1.667	1.561	1.418
HORIZONTAL SPREAD	:	1.859	1.859	1.712
VERTICAL SPREAD	:	2.607	2.465	2.260
EXTREME SPREAD	:	2.888	2.888	2.451
NUMBER IN ONE INCH CIRCLE =			0	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			8	

4 Nov 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C8225136

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 7

HS= 2.904

VS= 2.395

GS= 3.098

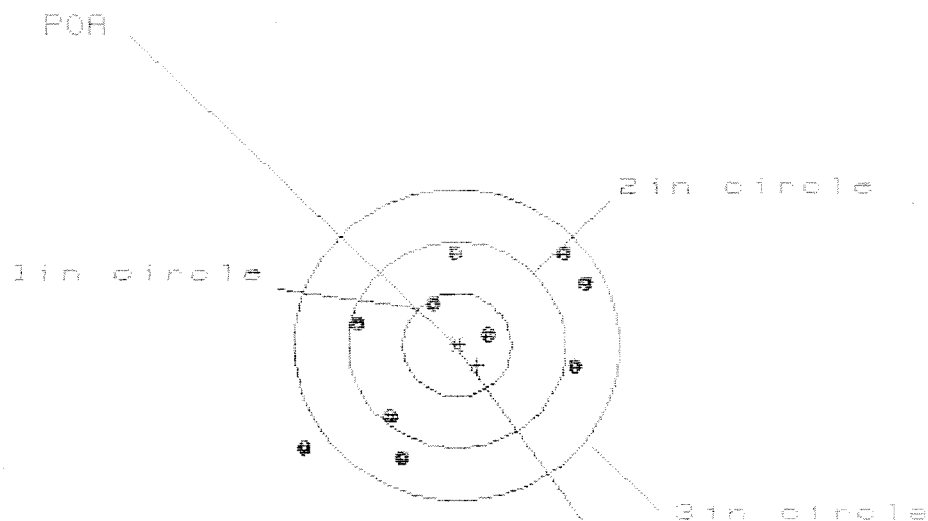
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.371	1.322	1.450
MINIMUM X	:	-1.532	-1.380	-1.252
MAXIMUM Y	:	1.133	1.004	.862
MINIMUM Y	:	-1.262	-1.136	-.792
CENTROID X	:	-.403	-.555	-.683
CENTROID Y	:	-.125	-.251	-.109
POA TO CENTROID in.	:	.421	.609	.691
MIN RADIUS	:	.286	.112	.280
MEAN RADIUS	:	1.097	.992	.931
MAX RADIUS	:	1.779	1.529	1.652
HORIZONTAL SPREAD	:	2.904	2.702	2.702
VERTICAL SPREAD	:	2.395	2.140	1.654
EXTREME SPREAD	:	3.098	2.827	2.827
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

4 May 1992

FILE:/PATTERNING/CENTERFIRE_PATT/08225136

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 9

HS= 2.621

VS= 2.053

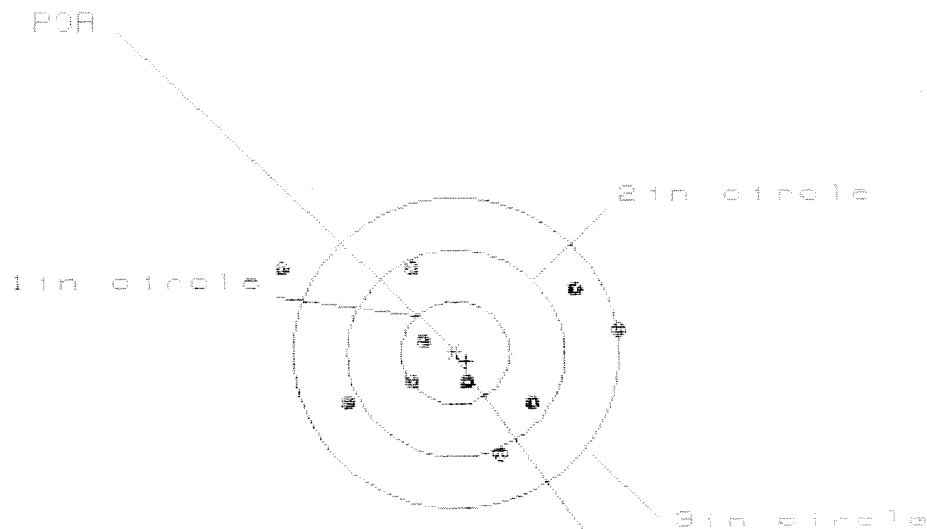
GS= 3.060

PATTERN #	4
SHOTS (BEST OF)	10
MAXIMUM X	1.220
MINIMUM X	-1.401
MAXIMUM Y	.932
MINIMUM Y	-1.121
CENTROID X	-.183
CENTROID Y	.196
POA TO CENTROID in.	.268
MIN RADIUS	.305
MEAN RADIUS	1.029
MAX RADIUS	1.718
HORIZONTAL SPREAD	2.621
VERTICAL SPREAD	2.053
EXTREME SPREAD	3.060
NUMBER IN ONE INCH CIRCLE =	2
NUMBER IN TWO INCH CIRCLE =	5
NUMBER IN THREE INCH CIRCLE =	9

4 Nov 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6225136

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 9

HS= 3.038

VS= 1.857

GS= 3.087

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.455	1.280	1.063
MINIMUM X	:	-1.583	-1.199	-1.040
MAXIMUM Y	:	.853	.941	.983
MINIMUM Y	:	-1.084	-.916	-.874
CENTROID X	:	-.100	.075	-.085
CENTROID Y	:	.088	-.008	-.050
POA TO CENTROID in.	:	.128	.076	.098
MIN RADIUS	:	.324	.212	.203
MEAN RADIUS	:	.974	.875	.791
MAX RADIUS	:	1.771	1.322	1.315
HORIZONTAL SPREAD	:	3.038	2.479	2.102
VERTICAL SPREAD	:	1.857	1.857	1.857
EXTREME SPREAD	:	3.087	2.597	2.408
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6725136

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble Gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel RB		7/24/89	WB
620	Apply Coatings (Barrel Action)		7/23/89	TA
	Apply Coating (Bolt)			
625	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		7/27/89	JO

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force							
	G) Safety Off Force							
	H) Trigger Pull Test & Retainability						7/27/89	AC
	I) Firing Pin Indent							
	J) Assemble Stock						7/30/89	RW
	K) Assemble Swivel Studs						7/31/89	WB
	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						8/2/89	JS
	A) Headspace							
	B) Trigger Pull	2.71	2.57	2.55	2.55	2.58	8/2/89	JS
	C) Function						8/2/89	JS
660	Pack						8/3/89	WB

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6225/36

DATE 27 July 89

TESTER J.W.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.58		2.51	2.71	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.57		2.51	2.57	
PULL #3	2.61		2.51	2.35	
PULL #4	2.60		2.50	2.55	
PULL #5	2.61		2.50	2.58	
TOTAL	12.97		12.53	12.96	
AVG.	2.594		2.506	2.592	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1				
PULL #2				
PULL #3				
PULL #4				
PULL #5				
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.06			
PULL #2	4.04			
PULL #3	4.04			
PULL #4	3.96			
PULL #5	3.94			
TOTAL	20.04			
AVG.	4.008			

00299

5081

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225136

OPERATION		DATE	INT
#	NAME		
575- 580	ASSEMBLY	2 26	FB
600	PROOF	2 29	RW
615	MAGNAFLUX BARREL	5/13/88	P/R.
	MAGNAFLUX BOLT	5/13/88	P/R.
620	COATING	8/11/88	TJA
625- 630	FINAL ASSEMBLY		
635	TEST		
640	TARGET		
	FIRING PIN INDENT		
660	PACK		

Scope #
1161

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225136

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coatings (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/22/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/22/88	RW
	C) Inspect Ejector Hole for Chamfer		8/22/88	RW

OVER

OP.#		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		8/22/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake	2.60 2.49 2.40 2.57 2.43	22 Aug 88	J.U. + J.S.
	F) Safety on Force	6 5.75 6	22 Aug 88	J.U. + J.S.
	G) Safety off Force	2.5 2.5 2.5	22 Aug 88	J.U. + J.S.
	H) Trigger Pull Test & Retainability	2.65 2.40 2.52 2.48 2.58	22 Aug 88	J.U. + J.S.
	I) Firing Pin Indent	.0215 .0215 .0215	22 Aug 88	J.U. + J.S.
	J) Assemble Stock		8/24/88	RW
	K) Assemble Swivel Studs			
	L) Attach Front & Rear Sight Assemblies		9/6/88	RW
	M) Iron Sight Alignment		9/6/88	RW
	N) Detach Front & Rear Sights & place in numbered container		9/6/88	RW
	O) Attach Scope to Rifle		9/12/88	RW
	P) Detach & Attach Scope 20 times		9/12/88	W.B.
640	Gallery Target & Test	62 R 93L	9/16/88	D.H.
	A) Optical Clarity of Scope		9/16/88	W.B.
645	Inspect for Live Ammo		9/16/88	W.B.
655	Final Inspection			
	A) Headspace	OK	9/29/88	JY
	B) Trigger Pull	OK	9/29/88	JY
	C) Function	OK	9/29/88	JY
660	Pack		10-20-88	J.S.

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225136

CENTROIDAL DISTANCES

0 TO	1	1.48356
1 TO	2	1.62914
1 TO	3	1.14396
1 TO	4	.966741
1 TO	5	1.05503

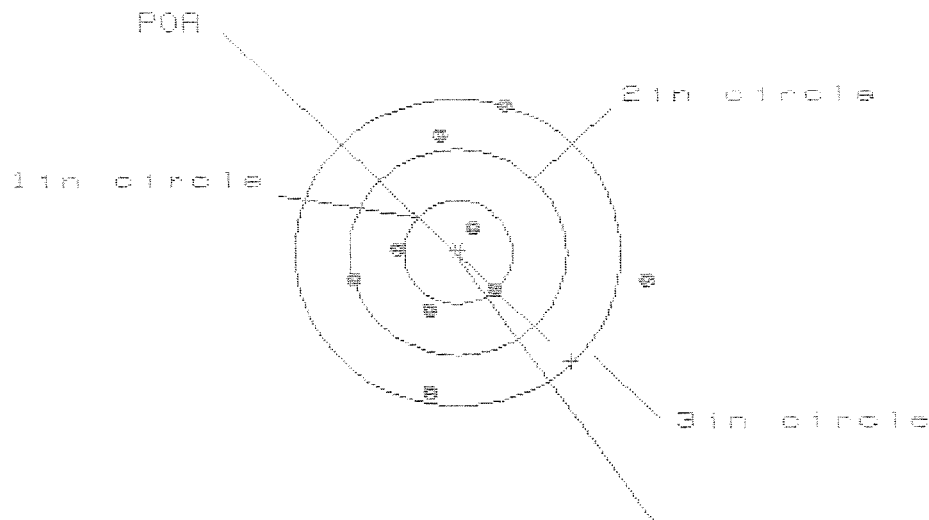
5
4
1
3 + (----POA
2

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.6832
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .7558
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: 1.01882
THE AMR FOR THIS RIFLE IS: .969

18 Sep 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225136

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 1

2in = 6

3in = 9

HS= 2.586

VS= 2.758

GS= 2.848

CENTROID #

PATTERN #

SHOTS (BEST OF)

MAXIMUM X

MINIMUM X

MAXIMUM Y

MINIMUM Y

CENTROID X

CENTROID Y

POA TO CENTROID in.

MIN RADIUS

MEAN RADIUS

MAX RADIUS

HORIZONTAL SPREAD

VERTICAL SPREAD

EXTREME SPREAD

NUMBER IN ONE INCH CIRCLE =

NUMBER IN TWO INCH CIRCLE =

NUMBER IN THREE INCH CIRCLE =

1

10

1.781

-.915

1.427

-1.331

-1.048

1.058

1.484

.297

.932

1.804

2.696

2.758

2.849

1

6

9

9

.653

-.717

1.394

-1.364

-1.238

1.091

1.650

.376

.803

1.540

1.370

2.758

2.849

1

6

9

8

.660

-.636

1.237

-1.189

-1.319

.916

1.606

.337

.684

1.243

1.296

2.426

2.428

1

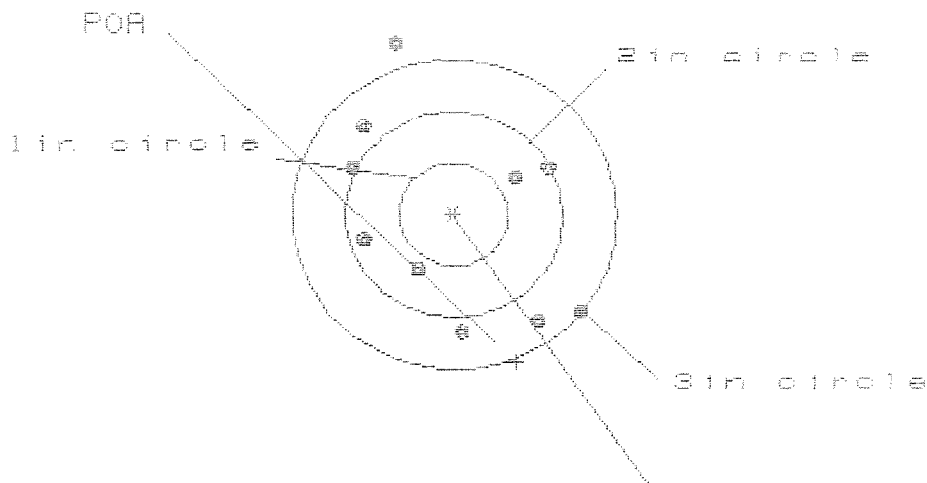
6

9

16 Sep 1985

FILE:/PATTERNING/CENTERFIRE_PATT/CS225136

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

CENTROID #

IN CIR

1 in = 0

2 in = 3

3 in = 7

HS= 2.069

VS= 2.053

GS= 3.142

PATTERN #

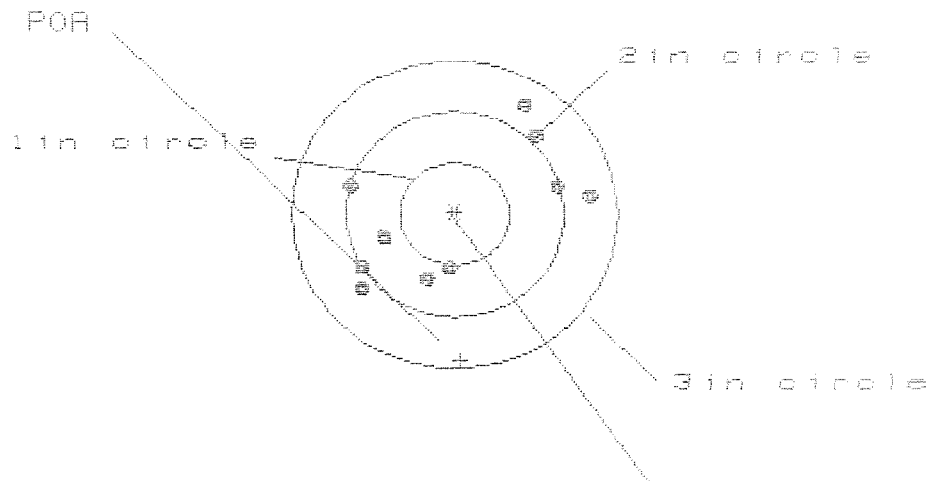
2

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.149	1.086	.982
MINIMUM X	:	-.920	-.983	-.848
MAXIMUM Y	:	1.697	1.098	1.005
MINIMUM Y	:	-1.156	-.968	-1.061
CENTROID X	:	-.567	-.504	-.639
CENTROID Y	:	1.436	1.248	1.341
POA TO CENTROID in.	:	1.544	1.345	1.485
MIN RADIUS	:	.641	.541	.521
MEAN RADIUS	:	1.115	1.024	.974
MAX RADIUS	:	1.790	1.397	1.287
HORIZONTAL SPREAD	:	2.069	2.069	1.830
VERTICAL SPREAD	:	2.053	2.066	2.066
EXTREME SPREAD	:	3.142	2.582	2.525
NUMBER IN ONE INCH CIRCLE =			0	
NUMBER IN TWO INCH CIRCLE =			3	
NUMBER IN THREE INCH CIRCLE =			9	

16 Sep 1986

FILE:/PATTERNING/CENTERFIRE_PATT/C6225136

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

CENTROID #

IN CIR

1 in = 0

2 in = 6

3 in = 10

HS= 2.202

VS= 1.839

GS= 2.374

PATTERN #

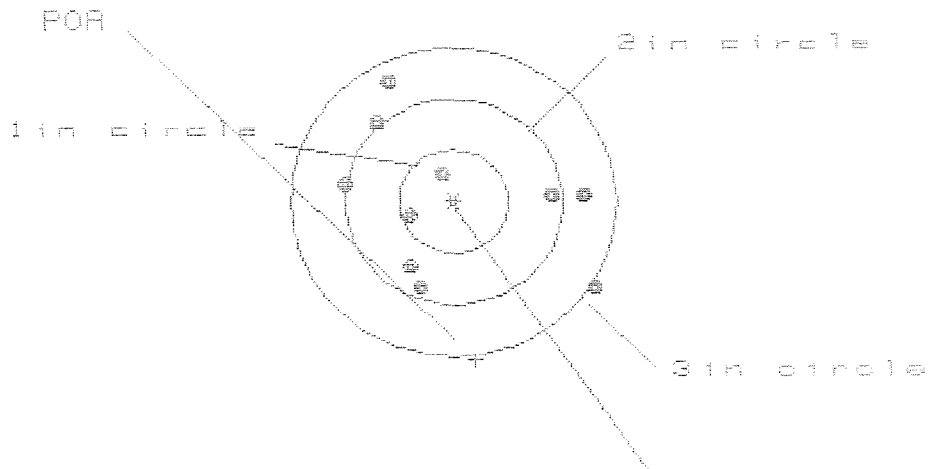
3

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.284	1.043	1.137
MINIMUM X	-.918	-.775	-.681
MAXIMUM Y	1.106	1.128	.935
MINIMUM Y	-.733	-.711	-.570
CENTROID X	-.044	-.187	-.281
CENTROID Y	1.425	1.403	1.262
POA TO CENTROID in.	1.425	1.415	1.293
MIN RADIUS	.533	.529	.433
MEAN RADIUS	.960	.897	.788
MAX RADIUS	1.299	1.357	1.374
HORIZONTAL SPREAD	2.202	1.818	1.818
VERTICAL SPREAD	1.839	1.839	1.505
EXTREME SPREAD	2.374	2.374	2.241
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		10	

16 Sep 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225136

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

CENTROID *

IN CIR

1in = 2

2in = 6

3in = 8

HS= 2.309

VS= 2.064

GS= 2.765

PATTERN #

4

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.332

1.359

1.304

MINIMUM X

-.977

-.829

-.884

MAXIMUM Y

1.183

1.093

.797

MINIMUM Y

-.881

-.971

-.834

CENTROID X

-.198

-.346

-.291

CENTROID Y

1.533

1.623

1.486

POA TO CENTROID in.

1.546

1.659

1.515

MIN RADIUS

.310

.234

.281

MEAN RADIUS

.945

.849

.805

MAX RADIUS

1.557

1.359

1.310

HORIZONTAL SPREAD

2.309

2.188

2.188

VERTICAL SPREAD

2.064

2.064

1.631

EXTREME SPREAD

2.765

2.188

2.188

NUMBER IN ONE INCH CIRCLE =

2

NUMBER IN TWO INCH CIRCLE =

6

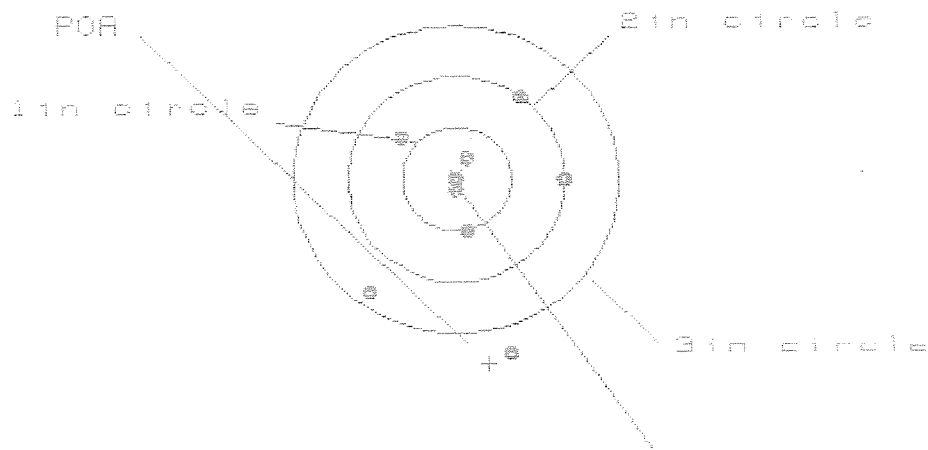
NUMBER IN THREE INCH CIRCLE =

9

18 Sep 1986

FILE:/PATTERNING/CENTERFIRE_PATT/06225136

CENTERFIRE PATTERNS # 5



CENTROID +

OF SHOTS= 10

IN CIR

1in = 3

2in = 7

3in = 8

HS= 1.910

VS= 3.721

GS= 3.991

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.979	.876	.927
MINIMUM X	-.931	-.957	-.906
MAXIMUM Y	2.055	1.004	.825
MINIMUM Y	-1.666	-1.438	-1.041
CENTROID X	-.289	-.186	-.237
CENTROID Y	1.799	1.571	1.750
POA TO CENTROID in.	1.822	1.582	1.766
MIN RADIUS	.022	.145	.054
MEAN RADIUS	.893	.758	.618
MAX RADIUS	2.256	1.495	1.380
HORIZONTAL SPREAD	1.910	1.833	1.833
VERTICAL SPREAD	3.721	2.442	1.866
EXTREME SPREAD	3.991	2.444	2.376
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		8	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6225/36

DATE 22 Aug 88

TESTER J. H. + J. S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.60	2.41	2.65	2.87	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.60	2.49	2.52	2.94	
PULL #3	2.63	2.55	2.58	2.78	
PULL #4	2.49	2.41	2.40	2.50	
PULL #5	2.57	2.43	2.48	2.42	
TOTAL	12.89	12.29	12.63	13.51	
AVG.	2.578	2.458	2.526	2.702	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.08	2.69		
PULL #2	3.07	3.03		
PULL #3	3.04	3.01		
PULL #4	2.99	2.96		
PULL #5	3.06	3.04		
TOTAL	15.24	14.73		
AVG.	3.048	2.946		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.13	4.31		3.95
PULL #2	4.33	4.36		3.86
PULL #3	4.37	4.32		3.84
PULL #4	4.22	4.34		3.85
PULL #5	4.37	4.38		3.92
TOTAL	21.42	21.71		19.42
AVG.	4.284	4.342		3.884

RECEIVING AND ESTIMATING REPORT

COMMENTS

SNIPER M-24 W/10X LEUPOLD SCOPE

INITIAL	CUSTOMER ORDER NO.
JJM	

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	MODEL AND GRADE	ORDER
08/08/90	08/16/90		C6225136	9999 7.65 NATO	R 90-22051
ACCESSORIES	SLING STRAP	W/STUDS	W/SWIVELS	HARD CASE	

FROM:

MAINTANCE DIVISION USAIC
ATTN ATZB-DL-MA-Q
BLDG 226
FORT BENNING GA 31905-5173

SHIP TO:

MAINTANCE DIVISION USAIC
ATTN ATZB-DL-MA-Q
BLDG 226
FORT BENNING

GA
31905-5173

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE

PROM. DATE

ESTIMATED

VIA

UP 3

REPAIR CHARGE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL	100	100	100
-------	-----	-----	-----

GUN CONDITION:

NEW

☐ SLIGHTLY WORN

☐ VERY WORN

☐ MISUSED

☐ MARRED

CUSTOMER'S REQUEST

MAIN FAULT.

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
GALLERY TESTER	DATE	DATE	DATE	DATE	DATE

RD6925 REV. 6/88

WITH GUN

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400049815

RECEIVING AND ESTIMATING REPORT

COMMENTS

Scope #
1161ORDER
R 95-16537

INITIAL JJM	CUSTOMER ORDER NO.	W/ULTRA 10X-M3A SCOPE M-24			
DATE RECEIVED 06/13/95	DATE OPENED 06/14/95	DATE CODE EM 10-92	SERIAL NUMBER C6225136	NEW SERIAL NUMBER	MODEL AND GRADE 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.D.L

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	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			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.	New Barrel			D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
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 & Survival Studs
W524095176#235	
REPAIRMAN RW	PROOF ✓
GALLERY TESTER RW	DATE 6/21/95
	CLEAN ✓
	TEST ✓
	TARGET ✓
	PATTERN
	DATE 6/24/95
	DATE 6/27/95
	DATE 6/27/95

OFFICE COPY

RD6925 REV. 1/94

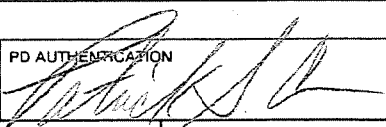
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400049817

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. HSASS		B. LOCATION FT.BENNING GA. 31905		C. UNIT IDENT CODE	
2. SERIAL NO. 66225136		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
							13. STARTS
14. FAILURE DETECTED DURING (Select one - use ☒ or X)				15. FIRST INDICATION OF TROUBLE (Select one - use ☒ or X)			
☐ A Sch. Main. ☐ C Test ☐ E Storage ☐ G Flight ☒ B Handling ☐ D Normal Op ☐ F Inspection ☐ H Other				☐ 068 Inoperative ☐ 258 Overheating ☐ 790 Out of Adjustment ☐ 008 Noisy ☐ 387 Low Performance ☒ 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)	
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
		(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	JULIAN DATE	JULIAN DATE		JULIAN DATE	JULIAN DATE		☐ A To User ☐ D Evacuated ☐ B To Stock ☐ E Cannibalization ☐ C Salvaged

Final Inspection

Sn: (6225136

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☒ SETComments: Trigger Adjusted
outside of factory

M-24

New Barrel

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6225/36

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			
	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 # *CL225/36*
11 Jul 1995

CENTROIDAL DISTANCES

0 TO	1	.256457
1 TO	2	.210535
1 TO	3	.805029
1 TO	4	.432634
1 TO	5	.678106

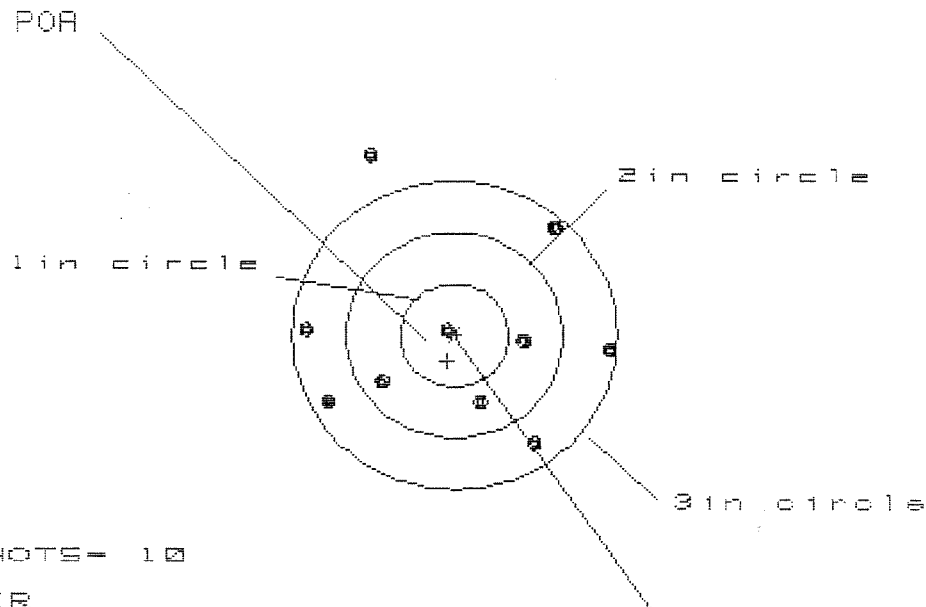
4
36
<----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .022
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1582
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .159722
THE AMR FOR THIS RIFLE IS: .9892

11 Jul 1995

FILE:/PATTERNING/CENTERFIRE_PATT/06225136

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 9

HS= 2.810

VS= 2.791

GS= 3.185

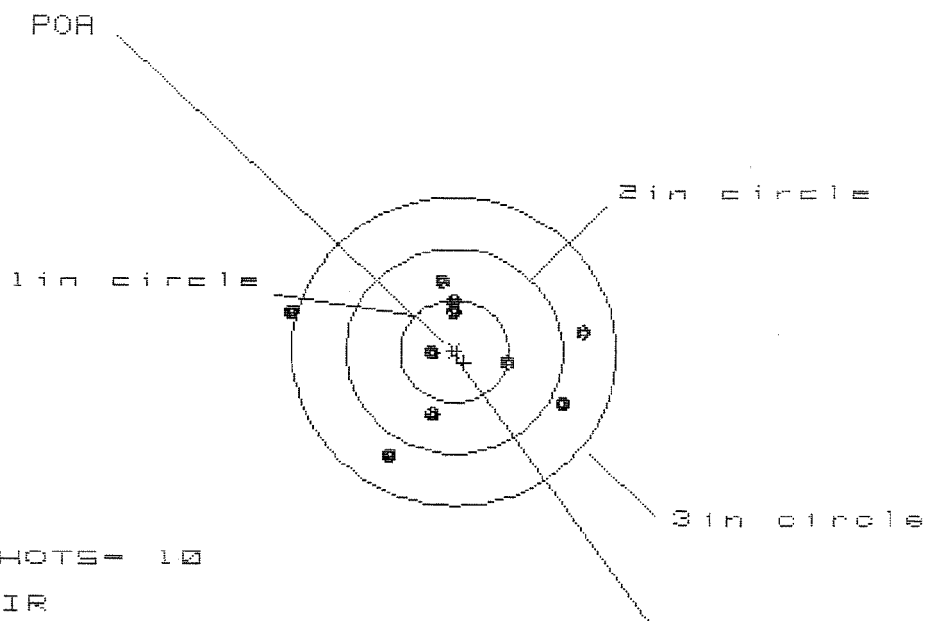
CENTROID *

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.462	1.375	1.007
MINIMUM X	:	-1.347	-1.435	-1.263
MAXIMUM Y	:	1.780	1.229	1.232
MINIMUM Y	:	-1.011	-.813	-.810
CENTROID X	:	.069	.156	-.016
CENTROID Y	:	.247	.049	.046
POA TO CENTROID in.	:	.256	.163	.049
MIN RADIUS	:	.093	.308	.278
MEAN RADIUS	:	1.090	.976	.918
MAX RADIUS	:	1.946	1.486	1.591
HORIZONTAL SPREAD	:	2.810	2.810	2.270
VERTICAL SPREAD	:	2.791	2.042	2.042
EXTREME SPREAD	:	3.185	2.821	2.622
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

11 Jul 1995

FILE:/PATTERNING/CENTERFIRE_PATT/06225136

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.702

VS= 1.695

GS= 2.749

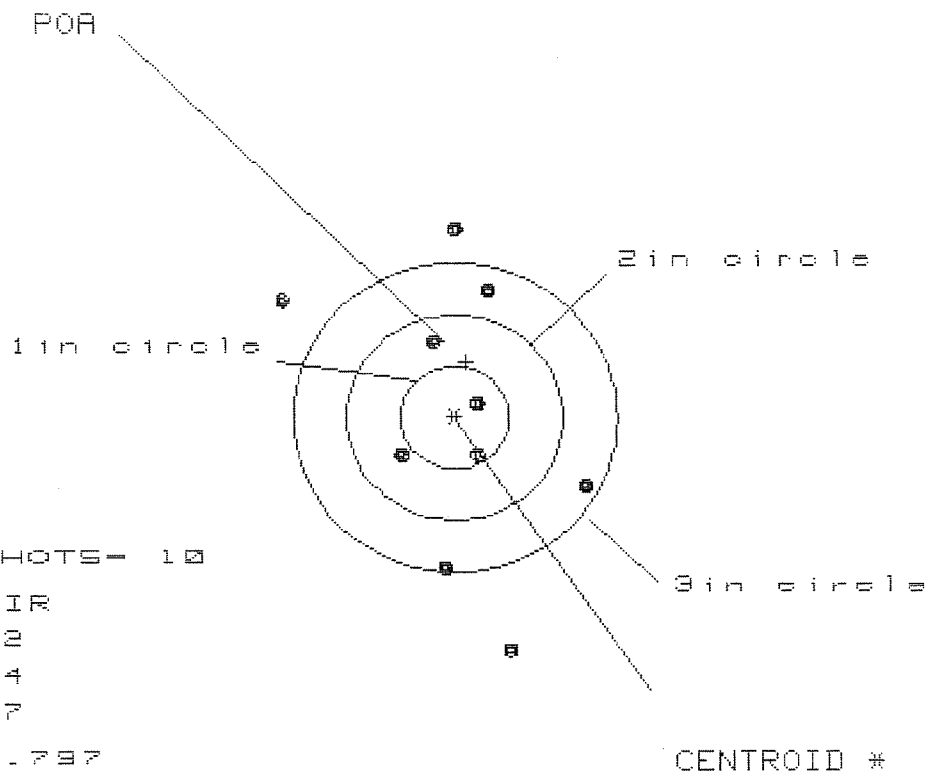
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.151	.979	.965
MINIMUM X	:	-1.550	-.733	-.610
MAXIMUM Y	:	.725	.773	.799
MINIMUM Y	:	-.970	-.922	-.895
CENTROID X	:	-.090	.082	-.041
CENTROID Y	:	.109	.061	.034
POA TO CENTROID in.	:	.142	.102	.053
MIN RADIUS	:	.209	.341	.262
MEAN RADIUS	:	.804	.715	.667
MAX RADIUS	:	1.610	1.178	1.084
HORIZONTAL SPREAD	:	2.702	1.712	1.575
VERTICAL SPREAD	:	1.695	1.695	1.695
EXTREME SPREAD	:	2.749	2.054	1.752
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

11 Jul 1995

FILE:/PATTERNING/CENTERFIRE_PATT/C6225136

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 7

HS= 2.797

VS= 4.158

GS= 4.179

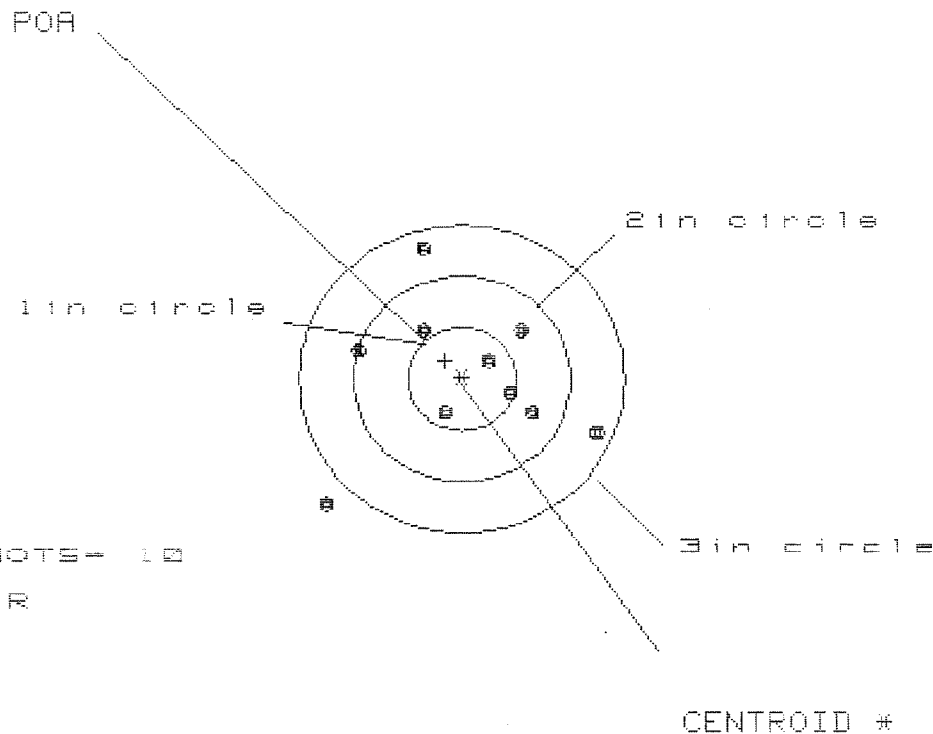
CENTROID #

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.235	1.285	1.096
MINIMUM X	:	-1.562	-1.512	-.624
MAXIMUM Y	:	1.866	1.611	1.717
MINIMUM Y	:	-2.292	-1.679	-1.573
CENTROID X	:	-.105	-.155	.034
CENTROID Y	:	-.539	-.284	-.390
POA TO CENTROID in.	:	.549	.324	.391
MIN RADIUS	:	.210	.266	.051
MEAN RADIUS	:	1.214	1.085	.970
MAX RADIUS	:	2.337	1.731	1.720
HORIZONTAL SPREAD	:	2.797	2.797	1.720
VERTICAL SPREAD	:	4.158	3.290	3.290
EXTREME SPREAD	:	4.179	3.292	3.292
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		7	

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CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 2.545

VS= 2.432

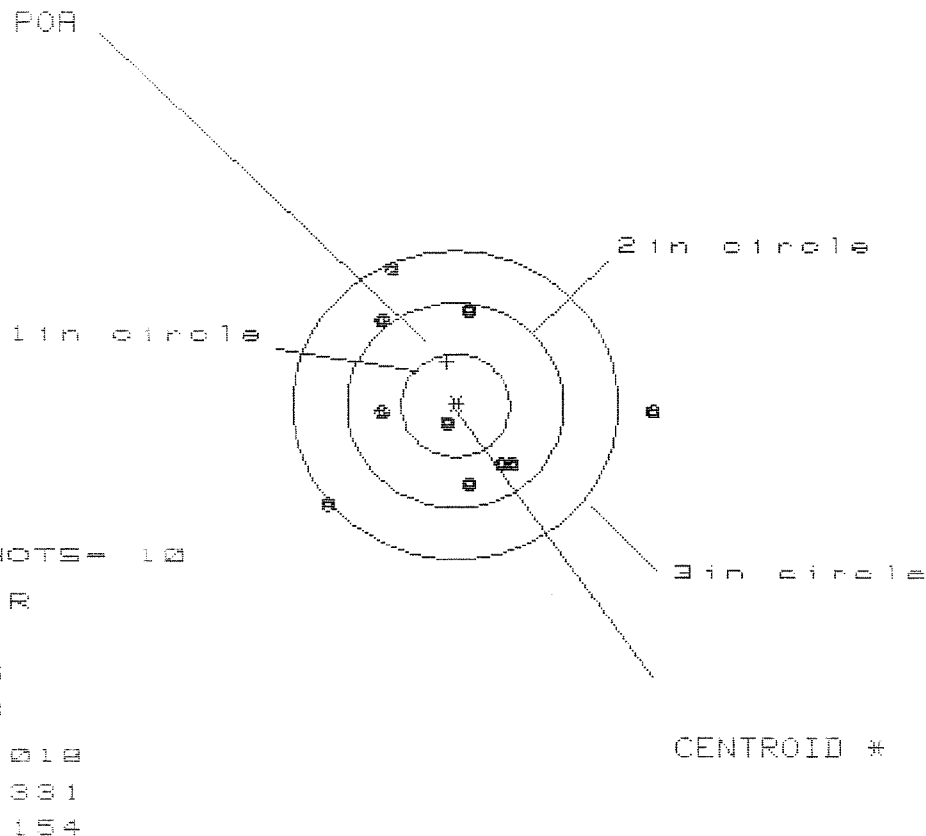
GS= 2.629

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.286	1.146	.601
MINIMUM X	:	-1.259	-1.114	-.970
MAXIMUM Y	:	1.231	1.097	1.013
MINIMUM Y	:	-1.201	-.674	-.579
CENTROID X	:	.155	.295	.152
CENTROID Y	:	-.177	-.043	.041
FOR TO CENTROID in.	:	.235	.298	.157
MIN RADIUS	:	.286	.108	.261
MEAN RADIUS	:	.850	.722	.662
MAX RADIUS	:	1.740	1.330	1.089
HORIZONTAL SPREAD	:	2.545	2.260	1.572
VERTICAL SPREAD	:	2.432	1.771	1.592
EXTREME SPREAD	:	2.629	2.447	1.881
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 5



PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.842	.766	.645
MINIMUM X	:	-1.176	-.971	-.562
MAXIMUM Y	:	1.380	1.376	1.257
MINIMUM Y	:	-.951	-.955	-.878
CENTROID X	:	.081	-.124	-.003
CENTROID Y	:	-.431	-.427	-.308
POR TO CENTROID in.	:	.438	.445	.308
MIN RADIUS	:	.184	.238	.302
MEAN RADIUS	:	.988	.884	.826
MAX RADIUS	:	1.843	1.419	1.341
HORIZONTAL SPREAD	:	3.018	1.737	1.207
VERTICAL SPREAD	:	2.331	2.331	2.135
EXTREME SPREAD	:	3.154	2.413	2.248
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	