G G73 8640
Replaces
C 6225164

07/17/08 08:09:41

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: RE00147675
Verify Repair

Serial: C6225164 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:
Status: Closed 7/17/2008 6:22:59 AM

Address Information

Customer: (Received From)	Return To: (Received From)
Name: PBO 1/75 RANGER REGIMENT	PBO 1/75 RANGER REGIMENT
Address 1: ATTN : W01 CURTIS B MATHIS	ATTN : W01 CURTIS B MATHIS
Address 2: 1036 LIBERATOR RD PO Box:	1036 LIBERATOR RD PO Box:
City: HUNTER AAF	HUNTER AAF
State: GA Zip Code: 31409 Country: US	State: GA Zip Code: 31409 Country: US

FFL:

Contact / Condition | Problems | Estimate | History / Status | Shipping / Billing

Contact Information

Phone: NN
Fax:
Email:
Comments:

Received Condition

Fair
Condition Notes:
CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A017	Scope Base	1
A057	Frt and Rear Sgt Base	1

Repair Search | Refresh | Close

nagletj | 7/17/2008 | 8:09 AM | CAPS | NUM | INS | SCRL

Start | 10 Micr... | Excite Mai... | 8 Micros... | Arms Ser... | Part Sear... | 8:09 AM

C6738640 (New)

Number: ~~C6225164~~ Reset

Model: M24 SWS

RE00147675

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

R & E NUMBER 1477625
SERIAL NUMBER ~~C022512~~ G6738640 (New)
LOG-IN DATE ~~TBJ~~ 7-16-08

OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		9-25-08	RTZ
505	RE-BARREL		9/30/08	RTZ
560	ASSEMBLE		9/30/08	RTZ
600	PROOF		10-2-08	S.P.D.
605	CHECK HEADSPACE		10-2-08	S.P.D.
610	DIS-ASSEMBLE GUN		10-2-08	S.P.D.
612	MAGNAFLUX	OCT 03 2008 OPERATOR	10/8/08	
510	DRILL AND TAP		10-6-08	SR
615	ROLLMARK CALIBER		10/8/08	RT
618	ROTO-BLAST			
620	APPLY COATINGS		10 11	
625	FINAL ASSEMBLY		10/15/08	RTZ
640	FUNCTION TEST AND	(PASS) FAIL	10-16-08	
650	TARGET	(PASS) FAIL	10-16-08	
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION N/A		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION	10-16-08	TC
670	FINAL INSPECTION		10-20-08	
	A) HEADSPACE	(PASS) FAIL	10-20-08	
	B) TRIGGER PULL (+/- .5 LBS, MIN 2.50 LBS, MAX 4.0 LBS)	2.50 2.49 2.53 2.56 2.57	10-17-08	TC
680	F) SAFETY ON FORCE (2 LBS MIN, 10 LBS MAX)	4.0 4.0 4.5	10-21-08	
	G) SAFETY OFF FORCE (2 LBS MIN)	6.0 6.0 5.0	10-21-08	
	I) FIRING PIN INDENT .020	.020 .021 .021	10-21-08	
690	PACK		10/22/08	

AVERAGE PULL FORCE BETWEEN INITIAL & CYCLE TESTS

DATE 9-23-08

TESTER TAE

	2.50 LBS INITIAL	2.50 LBS AFTER 20 CYCLES	FINAL TEST & TO RESET @ 2.50 LBS		COMMENTS
PULL #1	272	232		236	
PULL #2	266	243		236	
PULL #3	265	238		227	
PULL #4	263	230		232	
PULL #5	262	224		220	
TOTAL	1328	1167		1151	
AVERAGE	265	233		230	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	333	341		
PULL #2	330	340		
PULL #3	305	339		
PULL #4	331	338		
PULL #5	353	337		
TOTAL	1702	1693		
AVERAGE	340	338		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	409	452		455
PULL #2	452	450		468
PULL #3	442	446		430
PULL #4	449	465		418
PULL #5	439	460		433
TOTAL	2191	2263		2204
AVERAGE	438	452		440

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFOMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6738640.__0
FILE DATE AND TIME: 10/17/2008 05:38

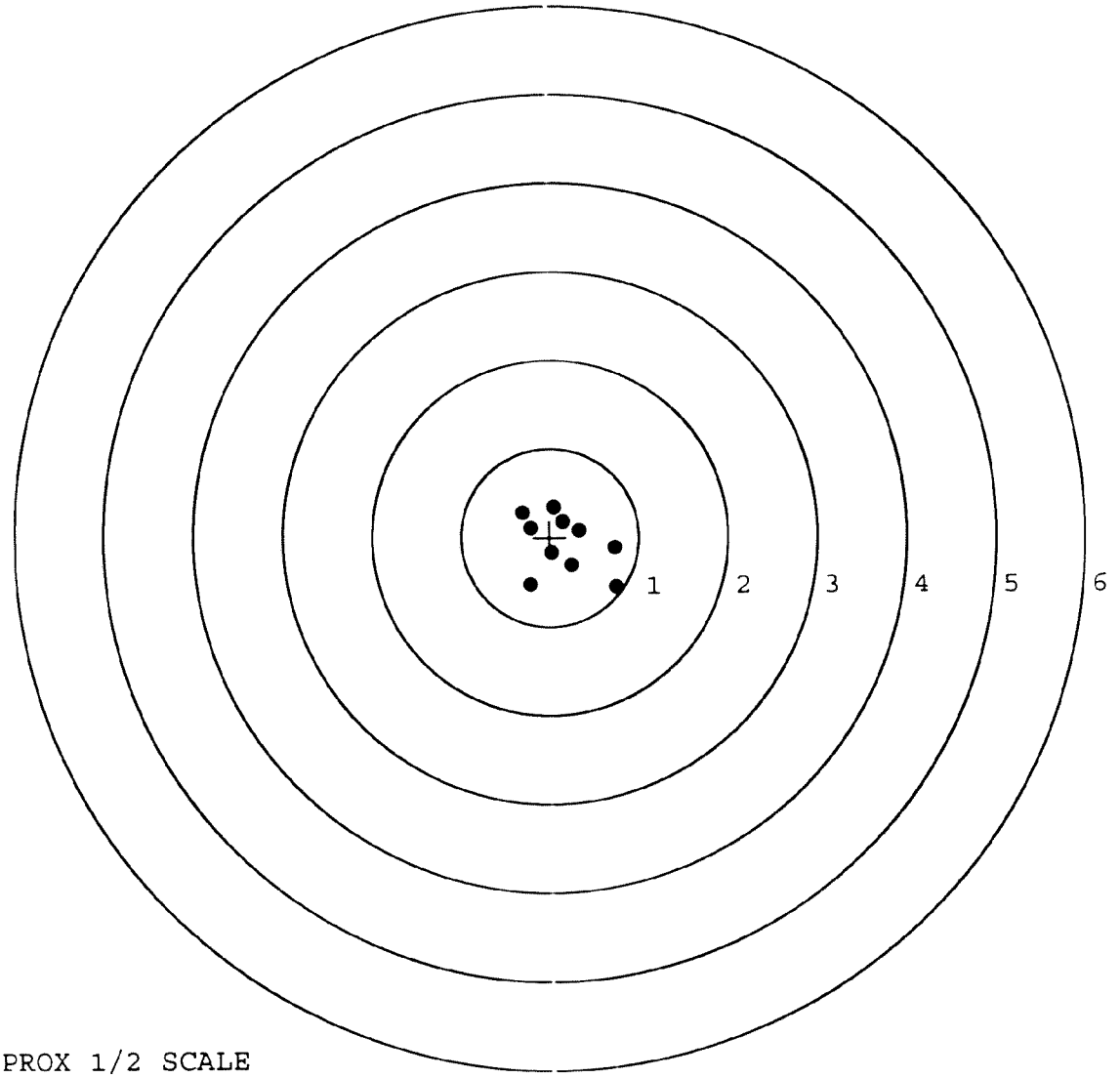
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.042
The Average Y Centroid of the Five Target Set:	-0.187
The Average Point of Impact of the Five Target Set:	0.192
The Average Mean Radius of the Five Target Set:	0.534
The Distance from POA to Centroid Target #1:	0.168
The Distance from Centroid Target #2 to Centroid Target #1:	0.065
The Distance from Centroid Target #3 to Centroid Target #1:	0.291
The Distance from Centroid Target #4 to Centroid Target #1:	0.221
The Distance from Centroid Target #5 to Centroid Target #1:	0.245

SERIAL NUMBER: G6738640.__0
TARGET NUMBER: 1
FILE DATE: 10/17/2008
FILE TIME: 05:38

X CENTROID:	0.151
Y CENTROID:	-0.074
POA TO CENTROID:	0.168
HORZ SPREAD:	1.049
VERT SPREAD:	0.899
GROUP SPREAD:	1.345
MIN RADIUS:	0.164
MAX RADIUS:	0.766
MEAN RADIUS:	0.427
# IN 1 IN DIAMETER:	6
# IN 2 IN DIAMETER:	10
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	-0.225	-0.536
2:	0.740	-0.564
3:	0.729	-0.121
4:	0.243	-0.320
5:	0.022	-0.175
6:	-0.218	0.102
7:	-0.309	0.278
8:	0.049	0.335
9:	0.149	0.179
10:	0.329	0.079

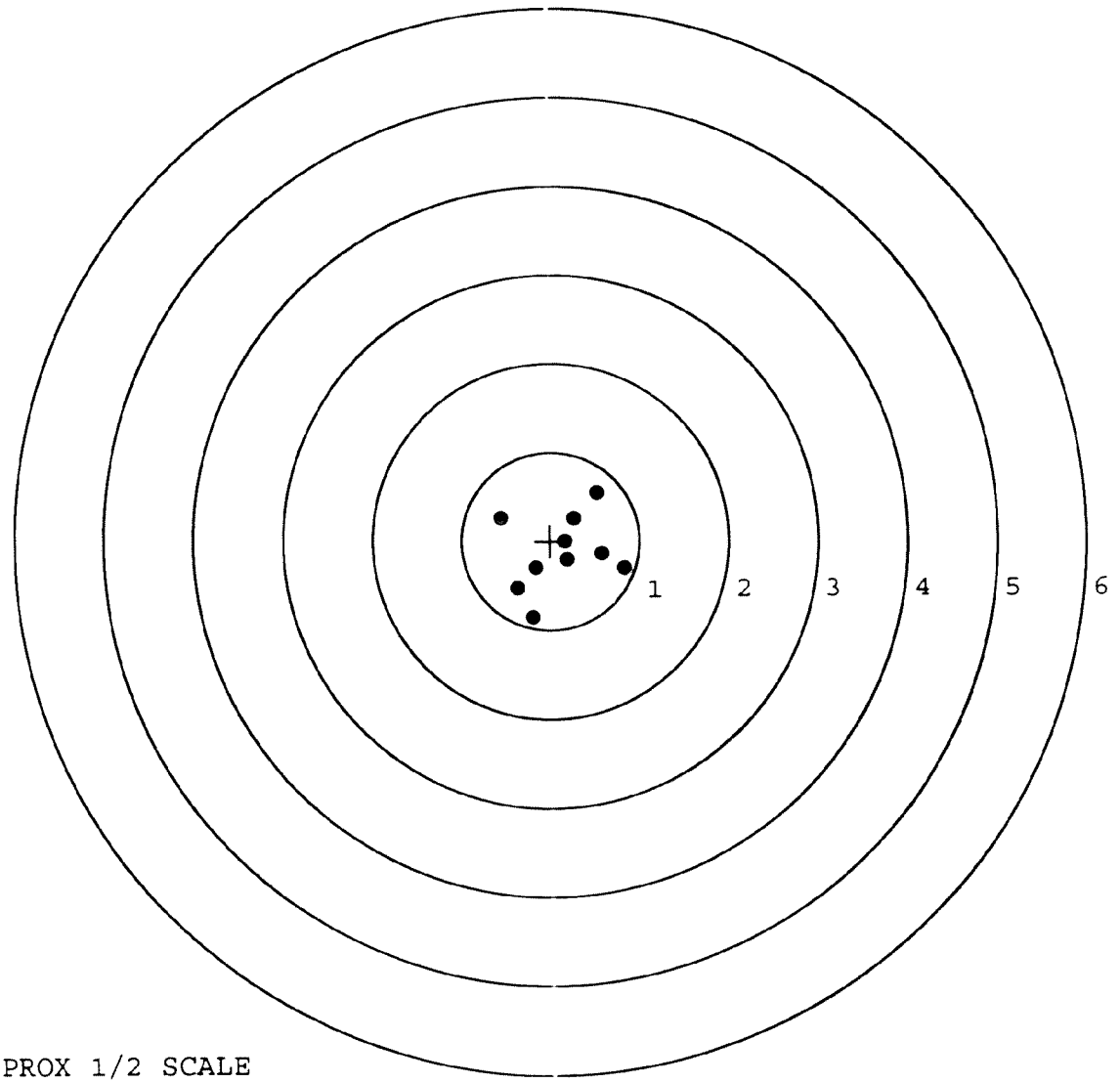


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738640.__0
TARGET NUMBER: 2
FILE DATE: 10/17/2008
FILE TIME: 05:38

X CENTROID:	0.124
Y CENTROID:	-0.134
POA TO CENTROID:	0.183
HORZ SPREAD:	1.383
VERT SPREAD:	1.411
GROUP SPREAD:	1.589
MIN RADIUS:	0.108
MAX RADIUS:	0.801
MEAN RADIUS:	0.520
# IN 1 IN DIAMETER:	5
# IN 2 IN DIAMETER:	10
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	0.526	0.546
2:	-0.555	0.264
3:	-0.204	-0.865
4:	-0.379	-0.538
5:	-0.170	-0.310
6:	0.191	-0.219
7:	0.163	-0.009
8:	0.828	-0.317
9:	0.578	-0.150
10:	0.263	0.259

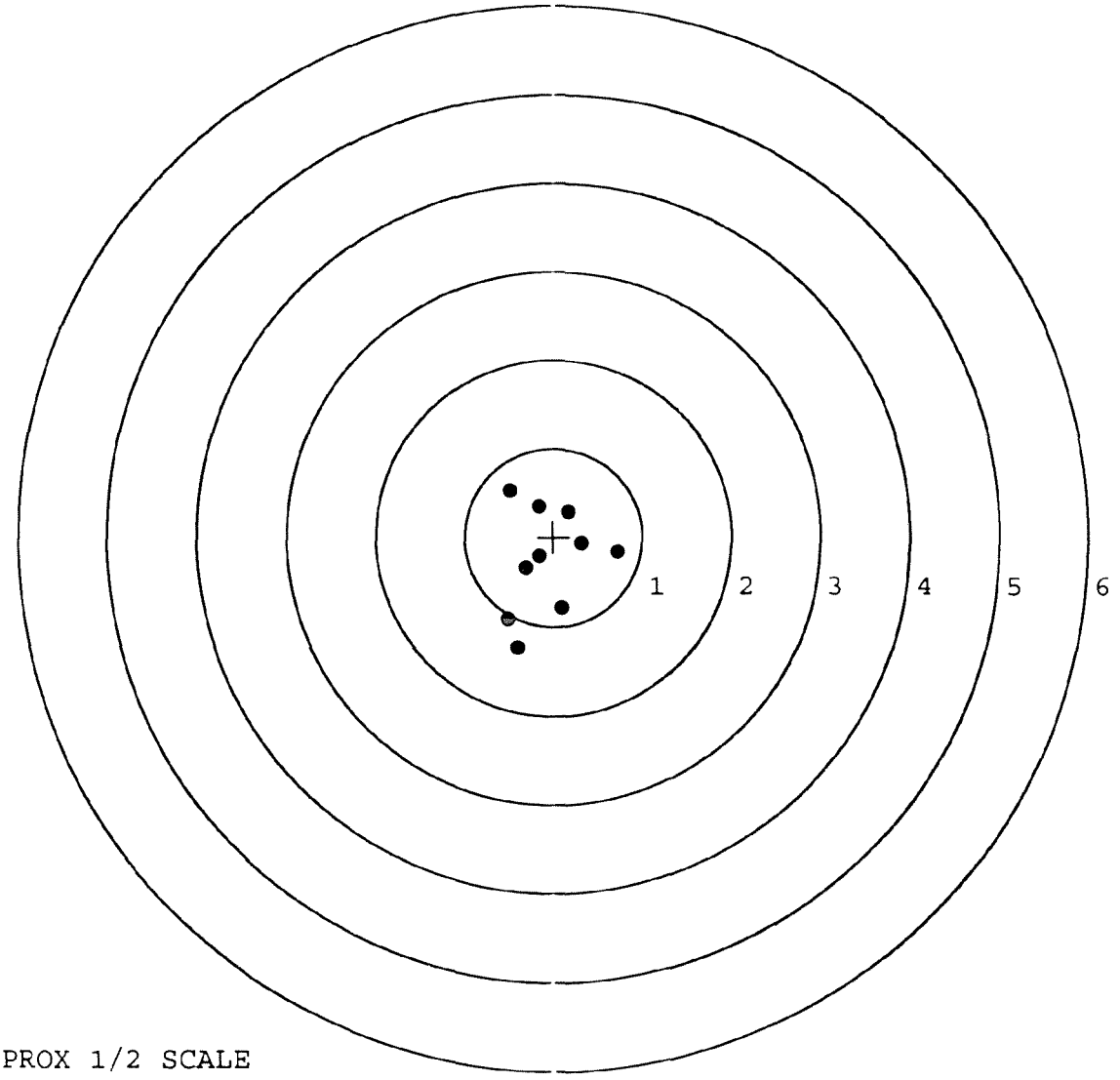


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738640.__0
TARGET NUMBER: 3
FILE DATE: 10/17/2008
FILE TIME: 05:38

X CENTROID:	-0.073
Y CENTROID:	-0.260
POA TO CENTROID:	0.270
HORZ SPREAD:	1.242
VERT SPREAD:	1.769
GROUP SPREAD:	1.771
MIN RADIUS:	0.095
MAX RADIUS:	1.039
MEAN RADIUS:	0.610
# IN 1 IN DIAMETER:	3
# IN 2 IN DIAMETER:	9
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	-0.408	-1.244
2:	-0.514	-0.923
3:	0.095	-0.797
4:	-0.311	-0.349
5:	-0.157	-0.216
6:	0.325	-0.068
7:	0.728	-0.169
8:	0.167	0.291
9:	-0.161	0.346
10:	-0.490	0.525

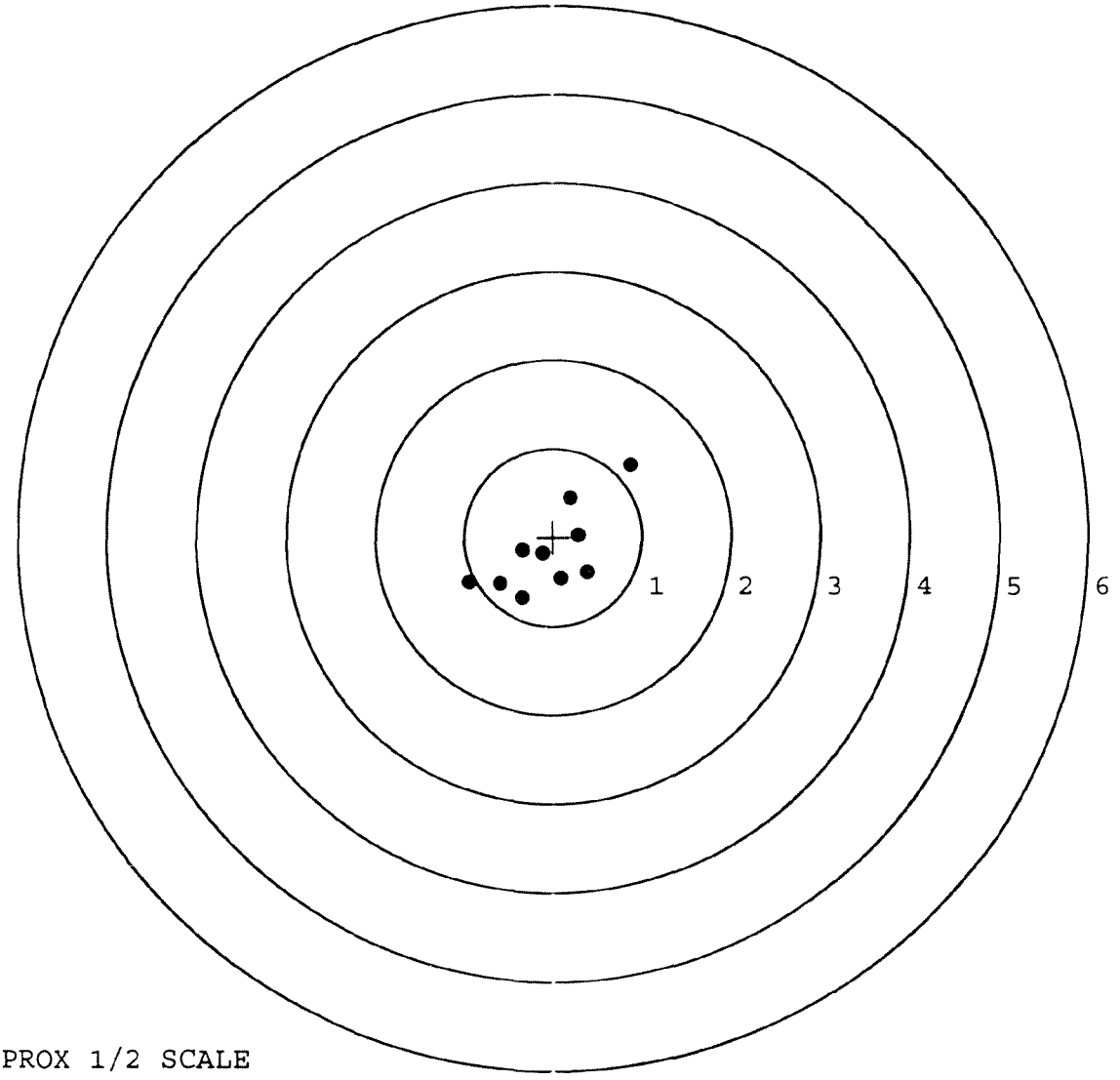


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738640.__0
TARGET NUMBER: 4
FILE DATE: 10/17/2008
FILE TIME: 05:38

X CENTROID:	-0.051
Y CENTROID:	-0.164
POA TO CENTROID:	0.172
HORZ SPREAD:	1.817
VERT SPREAD:	1.495
GROUP SPREAD:	2.251
MIN RADIUS:	0.073
MAX RADIUS:	1.347
MEAN RADIUS:	0.580
# IN 1 IN DIAMETER:	4
# IN 2 IN DIAMETER:	9
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	0.876	0.813
2:	0.195	0.442
3:	0.286	0.026
4:	0.391	-0.399
5:	0.096	-0.464
6:	-0.122	-0.184
7:	-0.346	-0.148
8:	-0.353	-0.682
9:	-0.597	-0.527
10:	-0.941	-0.515

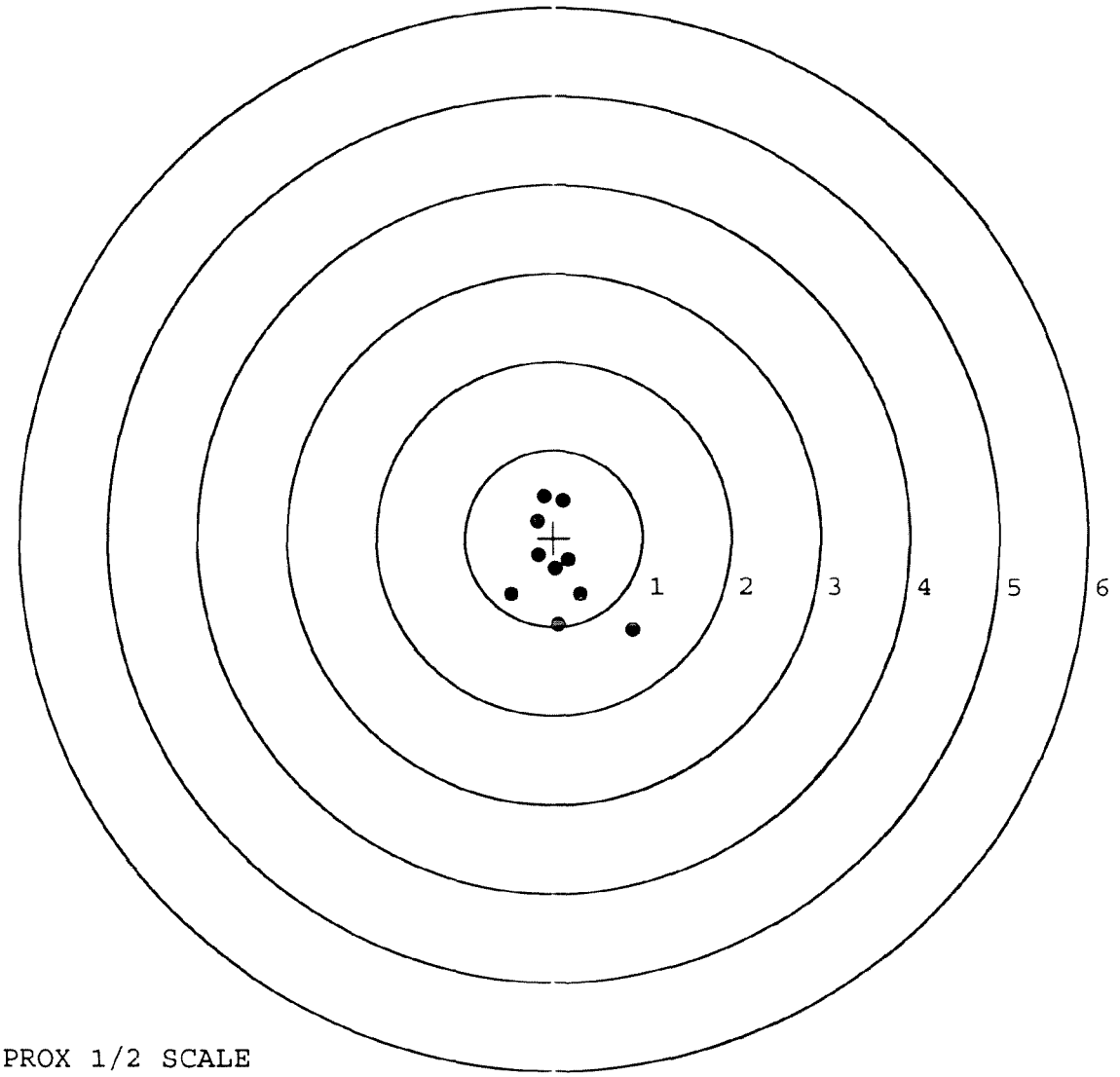


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738640.__0
TARGET NUMBER: 5
FILE DATE: 10/17/2008
FILE TIME: 05:38

X CENTROID:	0.061
Y CENTROID:	-0.302
POA TO CENTROID:	0.308
HORZ SPREAD:	1.364
VERT SPREAD:	1.516
GROUP SPREAD:	1.816
MIN RADIUS:	0.061
MAX RADIUS:	1.110
MEAN RADIUS:	0.535
# IN 1 IN DIAMETER:	4
# IN 2 IN DIAMETER:	9
# in 3 IN DIAMETER:	10

POINT#	X	Y
1:	0.887	-1.044
2:	0.058	-0.986
3:	-0.477	-0.643
4:	0.305	-0.634
5:	0.169	-0.251
6:	0.025	-0.352
7:	-0.172	-0.200
8:	-0.185	0.191
9:	-0.112	0.472
10:	0.111	0.423



TARGET APPROX 1/2 SCALE

RECEIVING AND ESTIMATING REPORT

COMMENTS: M-24 W/ULTRA 10X-M3A SCOPE & BI POD
ATTN: FRED MARTIN

ORDER: R 93-25378

INITIAL	CUSTOMER ORDER NO.
FPS	

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
11/23/93	11/23/93	DI 9-88	C6225164		700 7.62 NATO

ACCESSORIES: HARD CASE W/STUDS SCOPE MNTS SCOPE BASE

FROM:

DEPT. OF THE ARMY
A CO. 1/75 RGR REGT
HAAF GA 31409

SHIP TO:

DEPT. OF THE ARMY
A CO. 1/75 RGR REGT
HAAF GA
31409

CUST NO: 087736 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: Barrel is Not Free Floating

PARTS: Barrel Assy - 96001

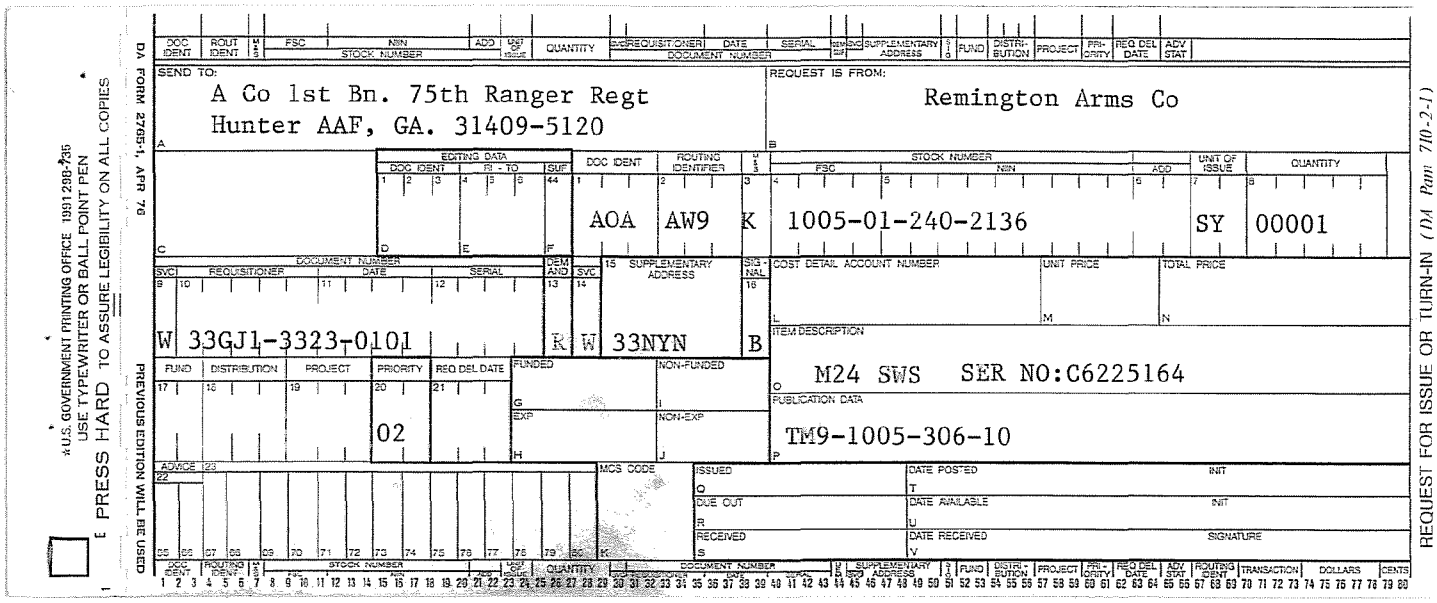
COMMENTS: Re-Zinc - Scope Base, Scope Rings & Swivel Studs.
Re-powder Coat - Floor plate, latch, Trigger Guard, Front & Rear Sight Bases.

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
RW	✓	✓	✓	✓	

GALLERY TESTER	DATE	DATE	DATE	DATE	DATE
RW	12/2/93	12/8/93	12/8/93	12/8/93	

OFFICE COPY

RD8925 REV. 1/92



DA FORM 2765-1, APR 76 PREVIOUS EDITION WILL BE USED

* U.S. GOVERNMENT PRINTING OFFICE: 1991 298-736
USE TYPEWRITER OR BALL POINT PEN
PRESS HARD TO ASSURE LEGIBILITY ON ALL COPIES

SEND TO:
A Co 1st Bn. 75th Ranger Regt
Hunter AAF, GA. 31409-5120

REQUEST IS FROM:
Remington Arms Co

DOC IDENT	ROUT IDENT	FSC	NIIN	ADD	UNIT OF ISSUE	QUANTITY
					SY	00001

DOC IDENT	ROUTING IDENTIFIER	
AOA	AW9	K

1005-01-240-2136

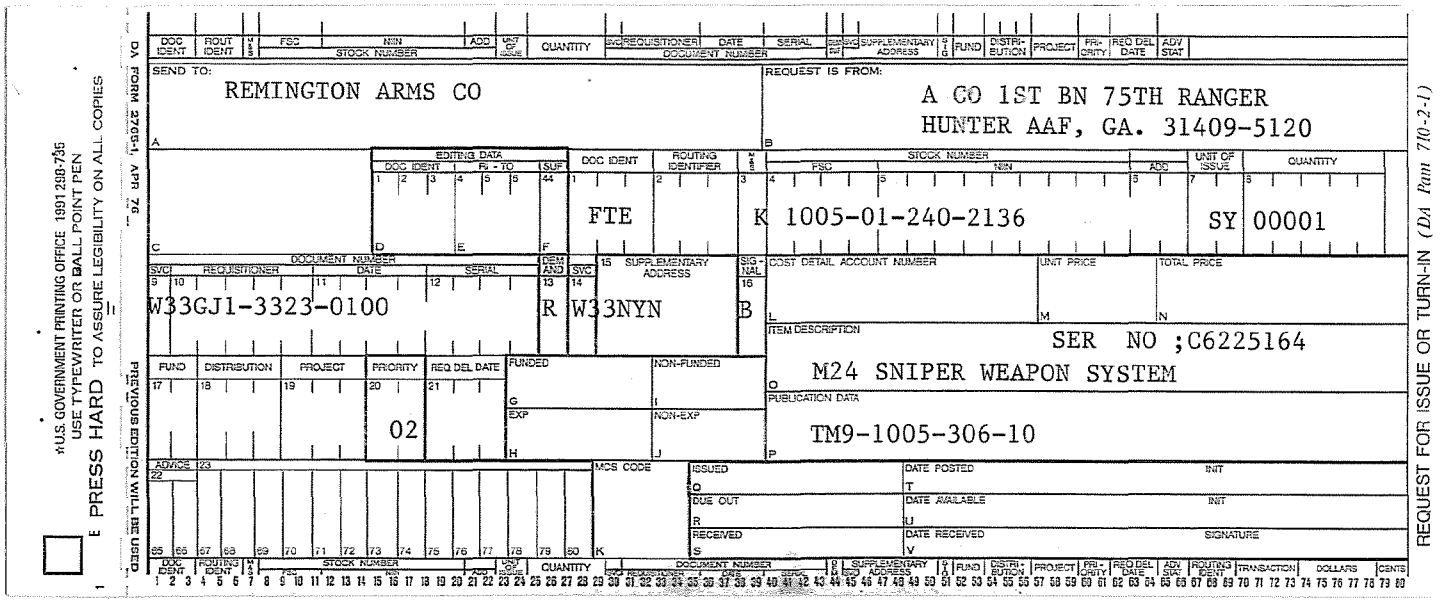
W 33GJ1-3323-0101 K W 33NYN B

M24 SWS SER NO:C6225164

TM9-1005-306-10

02

REQUEST FOR ISSUE OR TURN-IN (DA Pam 710-2-1)


DA FORM 2765-1, APR 76
PREVIOUS EDITION WILL BE USED
* U.S. GOVERNMENT PRINTING OFFICE 1991 288-736
USE TYPEWRITER OR BALL POINT PEN
PRESS HARD TO ASSURE LEGIBILITY ON ALL COPIES
REQUEST FOR ISSUE OR TURN-IN (DA Pam 710-2-1)
SEND TO:
REMINGTON ARMS CO
REQUEST IS FROM:
A CO 1ST BN 75TH RANGER
HUNTER AAF, GA. 31409-5120
FTE
K 1005-01-240-2136
SY 00001
W33GJ1-3323-0100
R W33NYN
B
SER NO ;C6225164
M24 SNIPER WEAPON SYSTEM
TM9-1005-306-10
02

EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET

For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

1. ORGANIZATION	2. NOMENCLATURE AND MODEL
A CO 1/75 RGR REGT	M24 SWS REMMINGTON RIFLE

3. REGISTRATION/SERIAL/NSN	4a. MILES	b. HOURS	c. ROUNDS FIRED	d. HOT STARTS	5. DATE	6. TYPE INSPECTION
C6225164						PMCS

7. APPLICABLE REFERENCE

TM NUMBER	TM DATE	TM NUMBER	TM DATE
9-1005.306-10	SEPT 1988		

COLUMN a — Enter TM item number.

COLUMN b — Enter the applicable condition status symbol.

COLUMN c — Enter deficiencies and shortcomings.

COLUMN d — Show corrective action for deficiency or shortcoming listed in Column c.

COLUMN e — Individual ascertaining completed corrective action initial in this column.

STATUS SYMBOLS

"X"—Indicates a deficiency in the equipment that places it in an inoperable status.

CIRCLED "X"—Indicates a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until corrective action can be accomplished.

HORIZONTAL DASH "(-)"—Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.

DIAGONAL "(/)"—Indicates a materiel defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable.

LAST NAME INITIAL IN BLACK, BLUE-BLACK INK, OR PENCIL-Indicates that a completely satisfactory condition exists.

FOR AIRCRAFT-Status symbols will be recorded in red.

ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.

8a. SIGNATURE *(Person (s) performing inspection)*	8b. TIME	9a. SIGNATURE *(Maintenance Supervisor)*	9b. TIME	10. MANHOURS REQUIRED

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
2	X	BARREL IS NOT FREE		
		FLOATING		

DA FORM 1 APR 79 2404 Replaces edition of 1 Jan 64, which will be used

3738

TM ITEM NO. *a*	STATUS *b*	DEFICIENCIES AND SHORTCOMINGS *c*	CORRECTIVE ACTION *d*	INITIAL WHEN CORRECTED *e*

GPO : 1991 0 - 287-382

MAINTENANCE REQUEST

For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG

PAGE NO.	NO. OF PAGES	REQUIREMENTS CONTROL SYMBOL
1	1	CSGLD - 1047(R1)

SECTION I - EQUIPMENT DATA

CONTROL NUMBER	WORK ORDER NO.	WESDC	ORG. PD	PD AUTHENTICATION

	1A. ORGANIZATION	B. LOCATION	C. UNIT IDENT CODE
☒ Work Request ☐ MWO ☐ Warranty Claim	ACo 1/75 RGR	BLDG 1276W HAAF GA 31409	WHBLAO

2. SERIAL NO.	3. NOUN NOMENCLATURE	4. LINE NO.	5. MODEL	6. NATIONAL STOCK NUMBER
C622516 4	M24 SWS			1005-01-240-2136

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)*

☐ A	Sch. Main.	☐ C	Test	☐ E	Storage	☐ G	Flight
☐ B	Handling	☒ D	Normal Op	☐ F	Inspection	☐ H	Other

15. FIRST INDICATION OF TROUBLE *(Select one - use ✓ or X)*

☐ 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)*

BARREL IS NOT FREE FLOATING

B. REMARKS

PREPARATION INSTRUCTIONS *(Prior to using this form, read DA PAM 738-750 for detailed preparation instructions)*

1. Place a "✓" or an "X" in the box for the type of action required.
2. Enter the WESDC if the item is Materiel Condition Status Reportable.
3. Enter the priority designator as determined from the urgency of need and force activity designator.
4. The Unit Commander, Chief of TDA activity or their designated representative will authenticate, by signature, a priority of 01 through 08.
5. *Block 1A.* Enter the name of the organization submitting the request.
6. *Block 1B.* Enter the unit submitting the request; units overseas enter APO only.
7. *Block 1C.* Enter the unit identification code of the unit in block 1A.
8. *Block 2.* Enter the equipment serial number. For ammunition, enter the lot number. For administrative-use vehicles, enter the USA registration number.
9. *Block 3.* Enter the noun abbreviation of the item.
10. *Block 4.* Enter the item line number, if applicable.
11. *Block 5.* Enter the model number.
12. *Block 6.* Enter the National Stock Number of the item listed in Block 3.
13. *Block 7.* Enter the name of the support activity.
14. *Block 7A.* Enter the symbol of the maintenance category (O, F, H, D, or L).
15. *Block 8.* Enter the utilization code.
16. *Block 9A.* Enter the word "yes" if the item is Materiel Condition Status Reportable.
17. *Block 9B.* Enter the equipment readiness code, if applicable.
18. *Block 9C.* Enter the word "yes" if the item is a pacing item.
19. *Block 10.* Enter the hour reading, if applicable.
20. *Block 11.* Enter the mileage from the odometer, if applicable.
21. *Block 12.* Enter the total rounds fired, if applicable.
22. *Block 13.* For turbine engines, enter the number of hot starts.
23. *Block 14.* Enter a "✓" or "X" in the proper block.
24. *Block 15.* Enter a "✓" or "X" in the proper block.
25. *Block 16.* Describe briefly the fault or symptoms needing correction.

23. SUBMITTED BY	24. RECEIVED BY
[signature]	
JULIAN DATE: 93319	JULIAN DATE

DA FORM 2407, AUG 88 — EDITION OF MAY 81 MAY BE USED — RECEIPT COPY 1

MAINTENANCE REQUEST

For use of this form, see DA PAM 738-750; the proponent agency is DCSLOG

PAGE NO.	NO. OF PAGES	REQUIREMENTS CONTROL SYMBOL
1	1	CSGLD - 1047(R1)

SECTION I - EQUIPMENT DATA

CONTROL NUMBER	WORK ORDER NO.	WESDC	ORG. PD	PD AUTHENTICATION

[X] Work Request / [ ] MWO / [ ] Warranty Claim	1A. ORGANIZATION	B. LOCATION	C. UNIT IDENT CODE
	ACo 1/75 RGR		

2. SERIAL NO.	3. NOUN NOMENCLATURE	4. LINE NO.	5. MODEL	6. NATIONAL STOCK NUMBER
C622516 4	M24 SWS			

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)*

[ ] A Sch. Main. [ ] C Test [ ] E Storage [ ] G Flight
[ ] B Handling [X] D Normal Op [ ] F Inspection [ ] H Other

15. FIRST INDICATION OF TROUBLE *(Select one - use ✓ or X)*

[ ] 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).*

BARREL IS NOT FREE FLOATING

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. (1) CB CODE	(2) REF DESIGN.	(3) MFR. CODE	D. MANHOURS *(Hrs. & tenths)*	E. NATIONAL STOCK NUMBER	F. PART SOURCE CODE	G. QTY.	H. PARTS COST
									$
									$
									$
									$
									$
									$
									$
									$
									$
									$

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. [ ] Date Transcribed

23. SUBMITTED BY	24. RECEIVED BY	25. WORK STARTED BY	26. INSPECTED BY	27. ACCEPTED BY
Cpl Lunn				
JULIAN DATE 93519	JULIAN DATE	JULIAN DATE	JULIAN DATE	JULIAN DATE

28. DISPOSITION *(Select One)*

[ ] A To User [ ] B To Stock [ ] C Salvaged [ ] D Evacuated [ ] E Cannibalization

DA FORM 2407, AUG 88 EDITION OF MAY 81 MAY BE USED NMP COPY 2

M2400001638

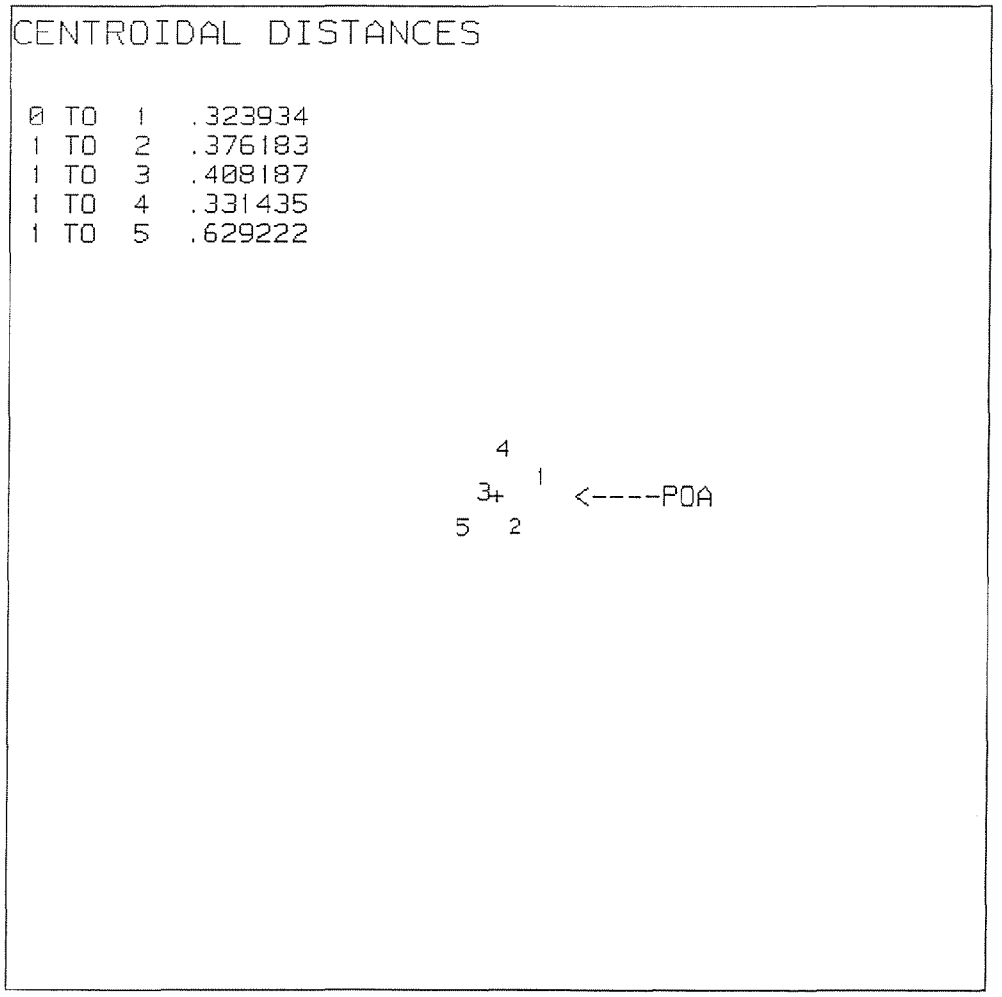
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # C6225164
27 Oct 1998

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0238
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0124
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0268365

THE AMR FOR THIS RIFLE IS: 1.134



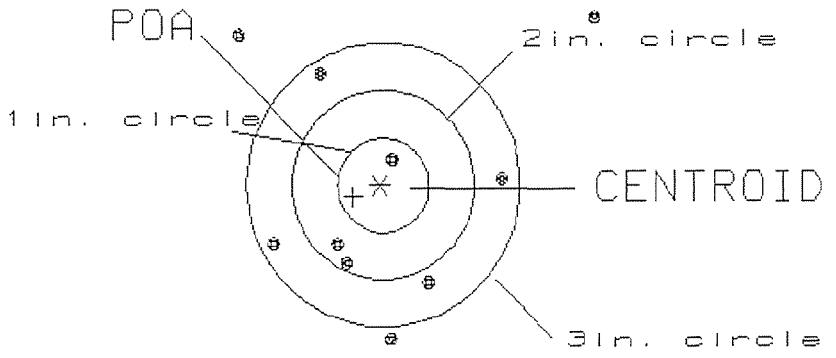
REMINGTON CENTERFIRE ACCURACY TEST REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: 1

POA TO CENTROID:	.324
MIN RADIUS :	.298
MEAN RADIUS :	1.411
MAX RADIUS :	2.930
CENTROID X :	.298
CENTROID Y :	.127

27 Oct 1998 FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6225164

CENTERFIRE PATTERN # 1



# OF SHOTS= 10	# IN CIRCLE
HS= 3.94	1
VS= 3.34	3
GS= 4.29	7

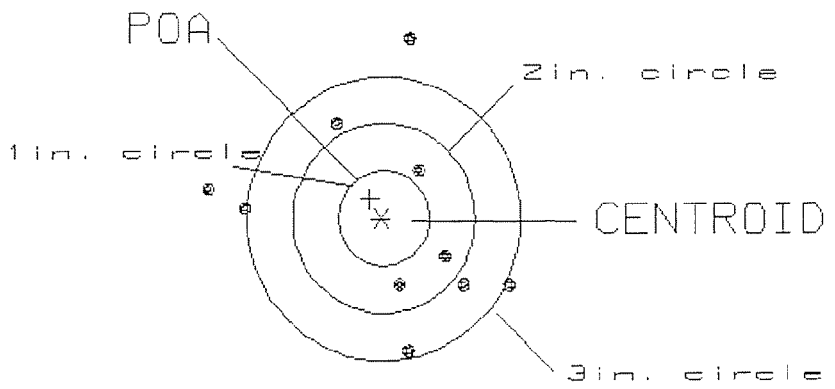
REMINGTON CENTERFIRE ACCURACY TEST REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: □ 2 □

POA TO CENTROID:		.240
MIN RADIUS	:	.626
MEAN RADIUS	:	1.270
MAX RADIUS	:	1.996
CENTROID X	:	.123
CENTROID Y	:	-.206

27 Oct 1998 FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6225164

CENTERFIRE PATTERN # 2



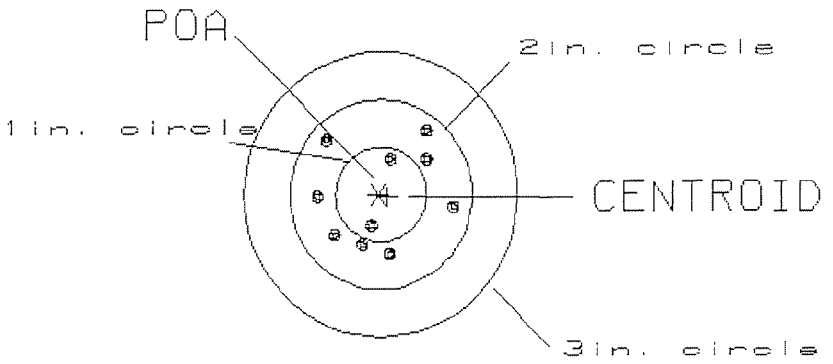
# OF SHOTS= 10	# IN CIRCLE
HS= 3.35	0
VS= 3.28	3
GS= 3.49	6

REMINGTON CENTERFIRE ACCURACY TEST REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: □ 3 □	
POA TO CENTROID:	.102
MIN RADIUS :	.310
MEAN RADIUS :	.640
MAX RADIUS :	.879
CENTROID X :	-.098
CENTROID Y :	.028

27 Oct 1998 FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6225164

CENTERFIRE PATTERN # 3



# OF SHOTS= 10	# IN CIRCLE
HS= 1.51	2
VS= 1.35	10
GS= 1.56	10

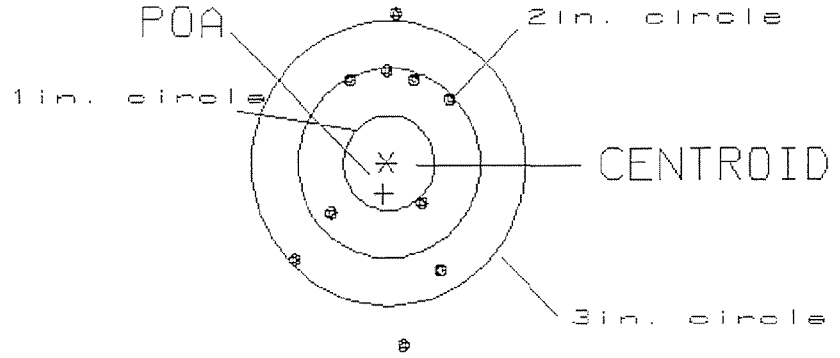
REMINGTON CENTERFIRE ACCURACY TEST REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: □ 4 □

POA TO CENTROID:		.323
MIN RADIUS	:	.518
MEAN RADIUS	:	1.134
MAX RADIUS	:	1.922
CENTROID X	:	.030
CENTROID Y	:	.322

27 Oct 1998 FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/C6225164

CENTERFIRE PATTERN # 4



# OF SHOTS= 10	# IN CIRCLE
HS= 1.78	0
VS= 3.51	6
GS= 3.51	8

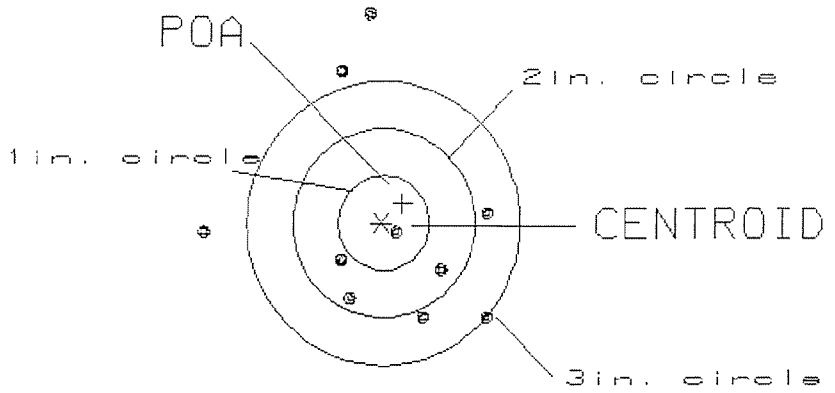
REMINGTON CENTERFIRE ACCURACY TEST REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: □ 5 □

POA TO CENTROID:		.313
MIN RADIUS	:	.157
MEAN RADIUS	:	1.214
MAX RADIUS	:	2.217
CENTROID X	:	-.234
CENTROID Y	:	-.209

27 Oct 1998 FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/CG225164

CENTERFIRE PATTERN # 5



# OF SHOTS= 10	# IN CIRCLE
HS= 3.11	1
VS= 3.23	4
GS= 3.44	7

RECEIVING AND ESTIMATING REPORT

COMMENTS: W/BI-POD

ORDER: R 98-18187

INITIAL: SWS | CUSTOMER ORDER NO.:

Scope -1284

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
09/09/98	09/09/98		C6225164		700 7.62 NATO

ACCESSORIES: SCOPE BASE HARD CASE

FROM:

CDR 1/75TH RGR REGT BLDG 1036
ATTN PBO CW3 HUMES
43 LIBERATOR RD SUITE 102
HUNTER AAF GA 31409

SHIP TO:

CDR 1/75TH RGR REGT BLDG 1036
ATTN PBO CW3 HUMES
43 LIBERATOR RD SUITE 102
HUNTER AAF GA
31409

CUST NO: 119494 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	A	B1				
TRIGGER GROUP		B2			B1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	B4	F4
WOOD		C1		D3	E5	F5
METAL		C2				

MAIN FAULT

PARTS	COMMENTS

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
RW	✓	✓	✓	✓	
GALLERY TESTER	**DATE**	**DATE**	**DATE**	**DATE**	**DATE**
RW			10/13/98	10/13/98	

OFFICE COPY

RD9925 REV. 7/97

HAND RECEIPT/ANNEX NUMBER *For use of this form, see DA PAM 710-2-1.* *The proponent agency is ODCSLOG.*	FROM: HHC 1/75TH RANGER REGT.	TO: PBO 1/75TH RANGER REGT.	HAND RECEIPT NUMBER

FOR ANNEX/CR ONLY	END ITEM STOCK NUMBER	END ITEM DESCRIPTION	PUBLICATION NUMBER	PUBLICATION DATE	QUANTITY
	1005-01-240-2136	7.62mm M24 SNIPER WEAPON SYSTEM	TM 9-1005-306-10	JUNE 1989	6

STOCK NUMBER *a.*	ITEM DESCRIPTION *b.*	* *c.*	SEC *d.*	UI *e.*	QTY AUTH *f.*	g. QUANTITY A	B	C	D	E	F
1005012602662	SYSTEM CASE		U	EA	1	6	1				
1005012602663	FOAM, TOP		U	EA	1	6	1				
1005012602664	FOAM, BOTTOM		U	EA	1	6	1				
1005012622818	SOFT RIFLE CARRYING CASE		U	EA	1	0	0				
1005007141245	SLING, SMALL ARMS		U	EA	1	0	0				
1005012602665	BIPOD(OPTIONAL)		U	EA	1	6	1				
1005012602647	DEPLOYMENT CASE		U	EA	1	0	0				
1005012602666	DAY OPTIC SIGHT CASE		U	EA	1	0	0				
NSN	DEPLYMENT KIT		U	KT	1	0	0				
NSN	FRONT SIGHT		U	EA	1	0	0				
NSN	REAR SIGHT		U	EA	1	0	0				
NSN	DAY OPTIC SIGHT SN # ~~881268, 881280,~~ 881284, ~~881290, 881202, 881294~~		U	EA	1	6	1				
1001012402136	RIFLE SN # ~~C6225098, C6225114~~ C6225164 ~~C6225283, C6225368, C6225260~~		U	EA	1	6	1				
							1				
							1				
							1				

* WHEN USED AS A:

HAND RECEIPT, enter Hand Receipt Annex Number
HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes
HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC).

DA FORM 2062, JAN 82 EDITION OF JAN 58 IS OBSOLETE USAPPC V2.10

EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET

For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG

1. ORGANIZATION	2. NOMENCLATURE AND MODEL
4HC 1/75 RGR Regt	M-24 Rem 700

3. REGISTRATION/SERIAL/NSN	4a. MILES	b. HOURS	c. ROUNDS FIRED	d. HOT STARTS	5. DATE	6. TYPE INSPECTION
C6225164					31Sep98	

7. APPLICABLE REFERENCE			
TM NUMBER	TM DATE	TM NUMBER	TM DATE

COLUMN a — Enter TM item number.

COLUMN b — Enter the applicable condition status symbol.

COLUMN c — Enter deficiencies and shortcomings.

COLUMN d — Show corrective action for deficiency or shortcoming listed in Column c.

COLUMN e — Individual ascertaining completed corrective action initial in this column.

STATUS SYMBOLS

"X"—Indicates a deficiency in the equipment that places it in an inoperable status.

CIRCLED "X"—Indicates a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until corrective action can be accomplished.

HORIZONTAL DASH "(-)"—Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.

DIAGONAL "(/)"—Indicates a materiel defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable.

LAST NAME INITIAL IN BLACK, BLUE-BLACK INK, OR PENCIL-Indicates that a completely satisfactory condition exists.

FOR AIRCRAFT-Status symbols will be recorded in red.

ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.

8a. SIGNATURE *(Person(s) performing inspection)*	8b. TIME	9a. SIGNATURE *(Maintenance Supervisor)*	9b. TIME	10. MANHOURS REQUIRED
Kevin R. Malone	1330			

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
1	X	Shot out barrel		

DA FORM 1 APR 79 2404 Replaces edition of 1 Jan 64, which will be used

RETURN ADDRESS

ATTN PBO (CW3 HUMES)
CDR 1/75TH RGR REGT (BLDG 1036)
43 LIBERATOR RD STE 102
HUNTER AAF GA 31409-4314
OFFICIAL BUSINESS
512-0

TM ITEM NO. *a*	STATUS *b*	DEFICIENCIES AND SHORTCOMINGS *c*	CORRECTIVE ACTION *d*	INITIAL WHEN CORRECTED *e*

GPO : 1991 0 - 301-856 (40140)

REGISTERED MAIL R

RECEIVING AND ESTIMATING REPORT

INITIAL	CUSTOMER ORDER NO.	COMMENTS	ORDER
JJM		W/10X SCOPE M-24	R92-07513

DATE RECEIVED	DATE OPENED	DATE CODE	SERIAL NUMBER	NEW SERIAL NUMBER	MODEL AND GRADE
03/16/92	03/16/92	DI 9-88	C6225164		700 7.62 NATO

ACCESSORIES W/STUDS SCOPE BASE HARD CASE

FROM:

CDR, 1ST BN 75TH RANGER REGT
ATTN CPT CHINN
AORG-FB-ACO
HAAF GA 31409

SHIP TO:

CDR, 1ST BN 75TH RANGER REGT
ATTN CPT CHINN
AORG-FB-ACO
HAAF GA
31409

CUST NO:059608 C.O.D.

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	WRITE ☐		PROM. DATE	ESTIMATED	VIA
			CLEAN/TEST			UPS

GUN CONDITION
- ☐ NEW
- ☐ LIGHTLY WORN
- ☐ WORN
- ☐ VERY WORN
- ☐ UNREPAIRABLE

042292 USPS PRIORITY
R92-07513
61 LB 07.0 OZ BASE
N SPC
W UNR
TOTAL CHARGES $ 10.850

REPAIR CHARGE	
EXCISE	
TAX	
INSURANCE	
UPS	314/5
PARCEL POST	10.850
TOTAL	$ 5.50

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. 8/91

MAINTENANCE REQUEST

For use of this form, see PAM 738-750; the proponent agency is DCSLOG

PAGE NO.	NO. OF PAGES	REQUIREMENT CONTROL SYMBOL	CONTROL NUMBER

SECTION I - CUSTOMER DATA

1a. UIC CUSTOMER	1b. CUSTOMER UNIT NAME	1c. PHONE NO.
WH3LA0	A Co 1/75	2-5943

2a. IF INTRANSIT CUSTOMER, ENTER DATA IN BLOCKS 2b AND 2c	2b. SAMS-2 UIC	2c. UTILIZATION CODE
		Ø

SECTION II - MAINTENANCE ACTIVITY DATA

3a. WORK ORDER NUMBER (WON)	3b. SHOP	3c. PHONE NO.
WH3LT0A20431	W	

4a. UIC SUPPORT	4b. SUPPORT UNIT NAME
WH3LT0	DS/GS Wpn Mnt 1/75

SECTION III - EQUIPMENT DATA WH3LT0

5. TYPE MNT REQ CODE	6. ID	7. NSN
1	A	1005

8. MODEL: M24

9. NOUN: RIFLE, 7.62 SNIPER

10a. ORG WON	10b. EIC

11. SERIAL NUMBER	12. QTY	13. PD
C6725414 [illegible]		

14. MALFUNCTION DESCRIPTION (for DSU/GSU use): BROKEN TRIGGER

15. FAILURE DETECTED DURING (Select one use √ or X)
- A Scheduled Maintenance
- B Handling
- C Test
- D Normal Op
- E Storage
- F Inspection
- G Flight
- H Other
- J Calibration

16a. MILES/KILOMETERS (enter √ or x) MI KM	16b. HOURS	16c. ROUNDS

16d. LANDINGS	16e. AUTO-ROTATIONS	17. PROJECT CODE (If assigned)	18. ACCOUNT PROCESSING CODE

19. IN WARRANTY? (enter Y or N)

20. LEVEL OF WORK (Select one use √ or X)
- O Unit Level
- F Intermediate Direct Spt
- H Intermediate General Spt
- D Depot
- I Special Repair Activity

21. BUMPER NO./TAIL NO.	22. REIMBURSABLE CUSTOMER? (if Intransit Customer, enter Y or N)

23. PD AUTHENTICATING SIGNATURE (Payroll Signature)

24. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs)

[illegible]

24a. REMARKS: RETURN TO REMINGTON IAW TM 9-1005-306-10 PARA 3-9 & 3-10.

SECTION IV - REPORTABLE DATA

25a. STA	25b. ORD DATE	25c. MIL TIME	25a. STA	25b. ORD DATE	25c. MIL TIME	26. TECHNICAL REFERENCES

SECTION V - TASK REQUIREMENTS DATA

27a. FILE INPUT ACT CD	27b. TASK NO.	27c. ACT RQD	27d. TASK DESCRIPTION	27e. QTY TO BE RPR	27f. WORK CENTER	27g. FAILURE CODE	27h. MH RMN/PROJ
			LTI FOR REPAIR	1	GW		.2
			REPAIR REAR SIGHT	1	GW		.2
			TRIGGER ASSY DEFECT	1	GW		.2
			NRTS				.
							.

SECTION VI - PART REQUIREMENTS

28a. FILE INPUT ACT CD	28b. TASK NO.	28c. ID	28d. RQD NSN OR PART NUMBER	28e. SFX CD	28f. QTY RQD	28g. QTY ISSUED	28h. NM CS	28i. FAILURE CODE	28j. STORAGE LOCATION	28k. NOUN/ INITIALS
			005010149595		001	001				(B)

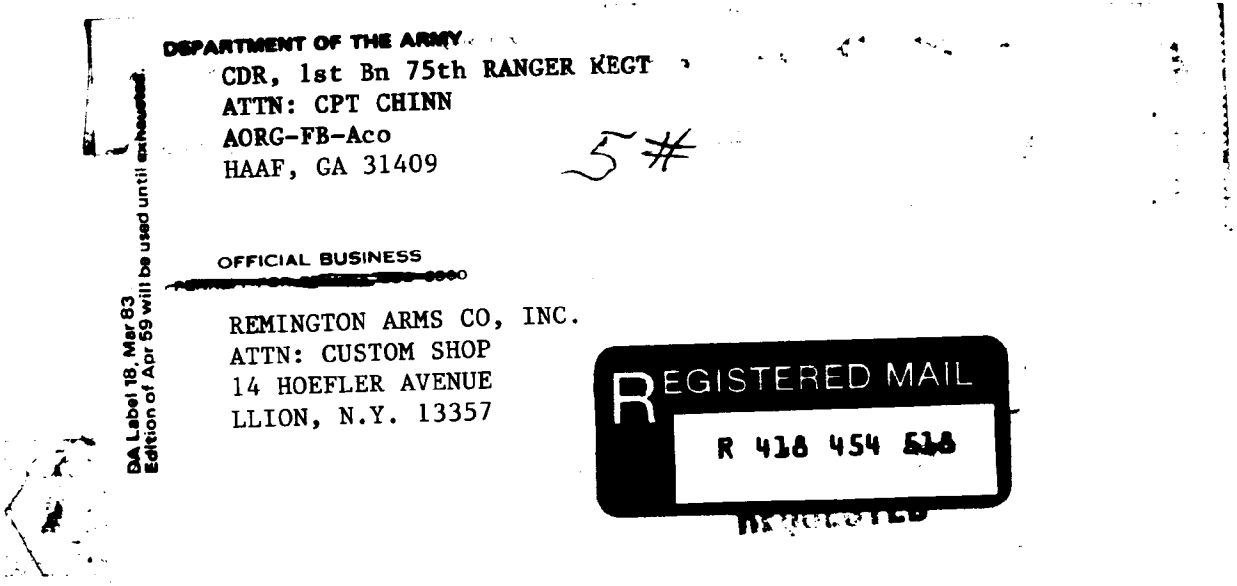
SECTION VII - COMPLETION DATA

29. QTY RPR	30. QTY CONDEMN	31. QTY NRTS	32. EVAC WON	33. EVAC UNIT NAME

SECTION VIII - ACTION SIGNATURES

34a. SUBMITTED BY	35a. ACCEPTED BY	36a. WORK STARTED BY	37a. INSPECTED BY	38a. PICKED UP BY
	(B)	(B)	(B)	A Co.

34b. ORD DATE	35b. STA	35c. ORD DATE	35d. MIL TIME	36b. STA	36c. ORD DATE	36d. MIL TIME	37b. STA	37c. ORD DATE	37d. MIL TIME	38b. STA	38c. ORD DATE	38d. MIL TIME
		[illegible]	0800		92094	0900		92094	0935		92094	



DEPARTMENT OF THE ARMY
CDR, 1st Bn 75th RANGER REGT
ATTN: CPT CHINN
AORG-FB-Aco
HAAF, GA 31409

5#

OFFICIAL BUSINESS

REMINGTON ARMS CO, INC.
ATTN: CUSTOM SHOP
14 HOEFLER AVENUE
LLION, N.Y. 13357

REGISTERED MAIL
R 418 454 538

DA Label 18, Mar 83
Edition of Apr 59 will be used until exhausted.

Hunter Army Air Field
A Co 1/15th
Bolt 505-2
Gun 516-4
(912) 352-6350

[redacted]-24

Scope #

1784

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225164

OP.#	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock	8	9/88	FB
600	Proof	9	7/88	RW
607	Check Headspace	9	7/88	RW
610	Dis-assemble gun	9	7/88	RW
612	Magnaflux Barrel Action		9-14-88	RW
	Magnaflux Bolt		9-14-88	RW
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)		10-31-88	TJA
	Apply Coatings (Bolt)		10-31-88	TJA
625	Final Assembly A)Clean inside of Bolt Assembly		11/2/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/2/88	RW
	C) Inspect Ejector Hole for Chamfer		11/2/88	RW

OVER

OP.#		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		11/2/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake		4 NOV 88	JSS
	F) Safety on Force	5 | 5 | 5	8 NOV 88	JSS
	G) Safety off Force	3 | 3 | 3	8 NOV 88	JSS
	H) Trigger Pull Test & Retainabilty		4 NOV 88	JSS
	I) Firing Pin Indent	.0205 | .0205 | .0205	8 NOV 88	JSS
	J) Assemble Stock		11/9/88	RW
	K) Attach Front & Rear Sight Assemblies		11/9/88	RW
	L) Iron Sight Alignment		11/9/88	RW
	M) Detach Front & Rear Sights & place in numbered container		11/9/88	RW
	N) Attach Scope to Rifle		11/9/88	RW
	O) Detach & Attach Scope 20 times		10 NOV 88	JSS
640	Gallery Target & Test	52 R 94 L	11/10/88	AC
	A) Optical Clearity of Scope	OK	11/10/88	AC
645	Inspect for Live Ammo	NONE	11/10/88	AC
655	Final Inspection A) Headspace		29 NOV 88	JSS
	B) Trigger Pull	2.50 | 2.50 | 2.49	2.51 | 2.51	JSS
	C) Function		29 NOV 88	JSS
	D) Assemble Swivel Studs		29 NOV 88	JSS
660	Pack		15 Dec 88	JSS

SWS TRIGGER PULL TEST

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

SERIAL NO. C6225164
DATE 4 Nov 88
TESTER D.S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.41	2.36	2.49	2.50	MIN. SETTING,
PULL #2	2.52	2.40	2.40	2.50	NO AVG. OF 5
PULL #3	2.46	2.39	2.49	2.49	READINGS ACCEPT-
PULL #4	2.48	2.38	2.44	2.51	ABLE LESS THAN 2#
PULL #5	2.46	2.34	2.48	2.58	
TOTAL	12.33	11.87	12.30	12.58	
AVG.	2.466	2.374	2.46	2.516	

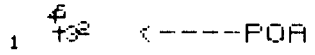
	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.32	3.27		
PULL #2	3.29	3.32		
PULL #3	3.31	3.34		
PULL #4	3.30	3.35		
PULL #5	3.27	3.33		
TOTAL	16.49	16.61		
AVG.	3.298	3.322		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.09		4.52
PULL #2	4.21	4.19		4.29
PULL #3	4.09	4.19		4.54
PULL #4	4.20	4.20		4.43
PULL #5	4.20	4.23		4.56
TOTAL	20.91	20.90		22.34
AVG.	4.182	4.18		4.468

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225164

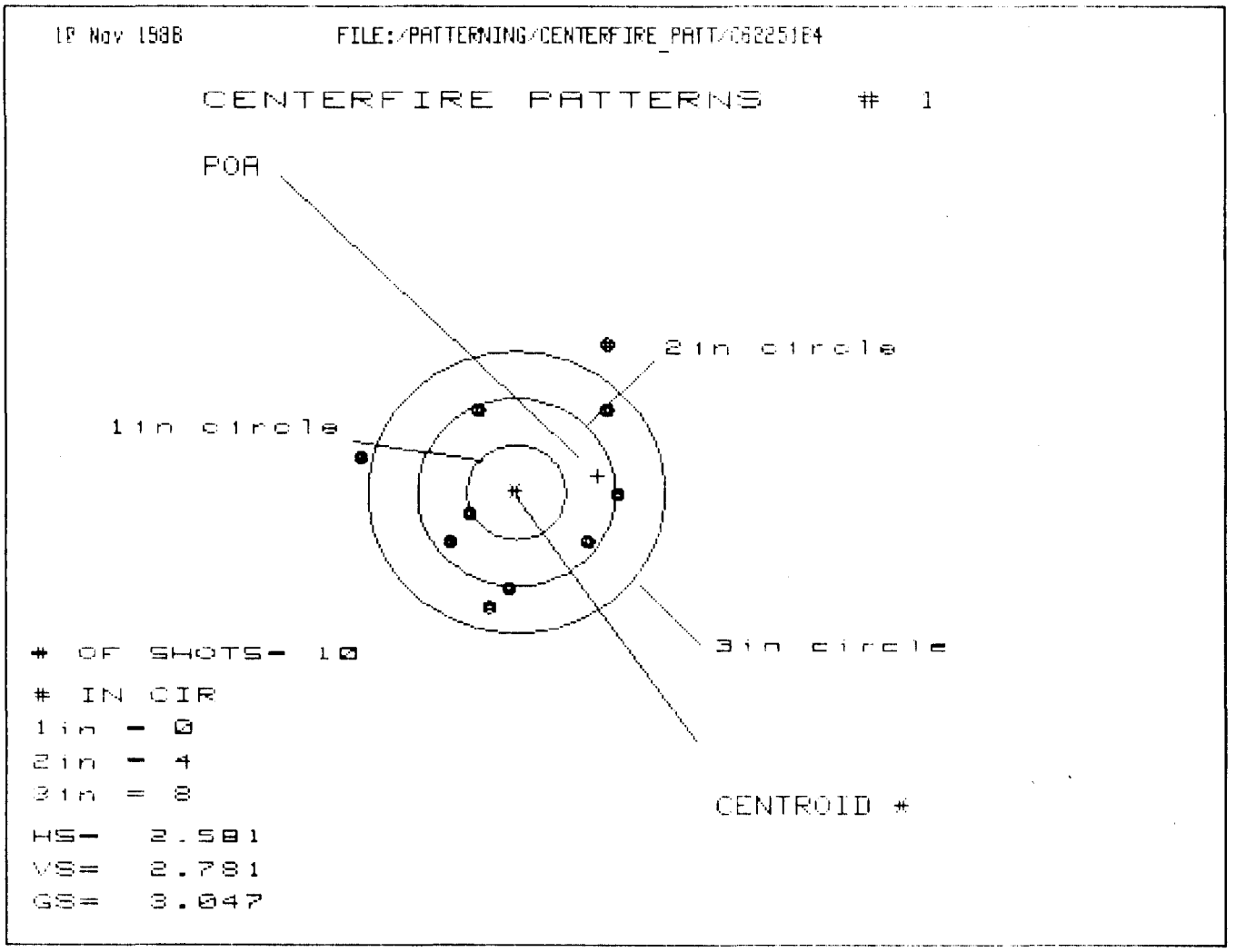
CENTROIDAL DISTANCES

Ø	TO	1	.843774
1	TO	2	1.31986
1	TO	3	1.08828
1	TO	4	.860523
1	TO	5	1.02954

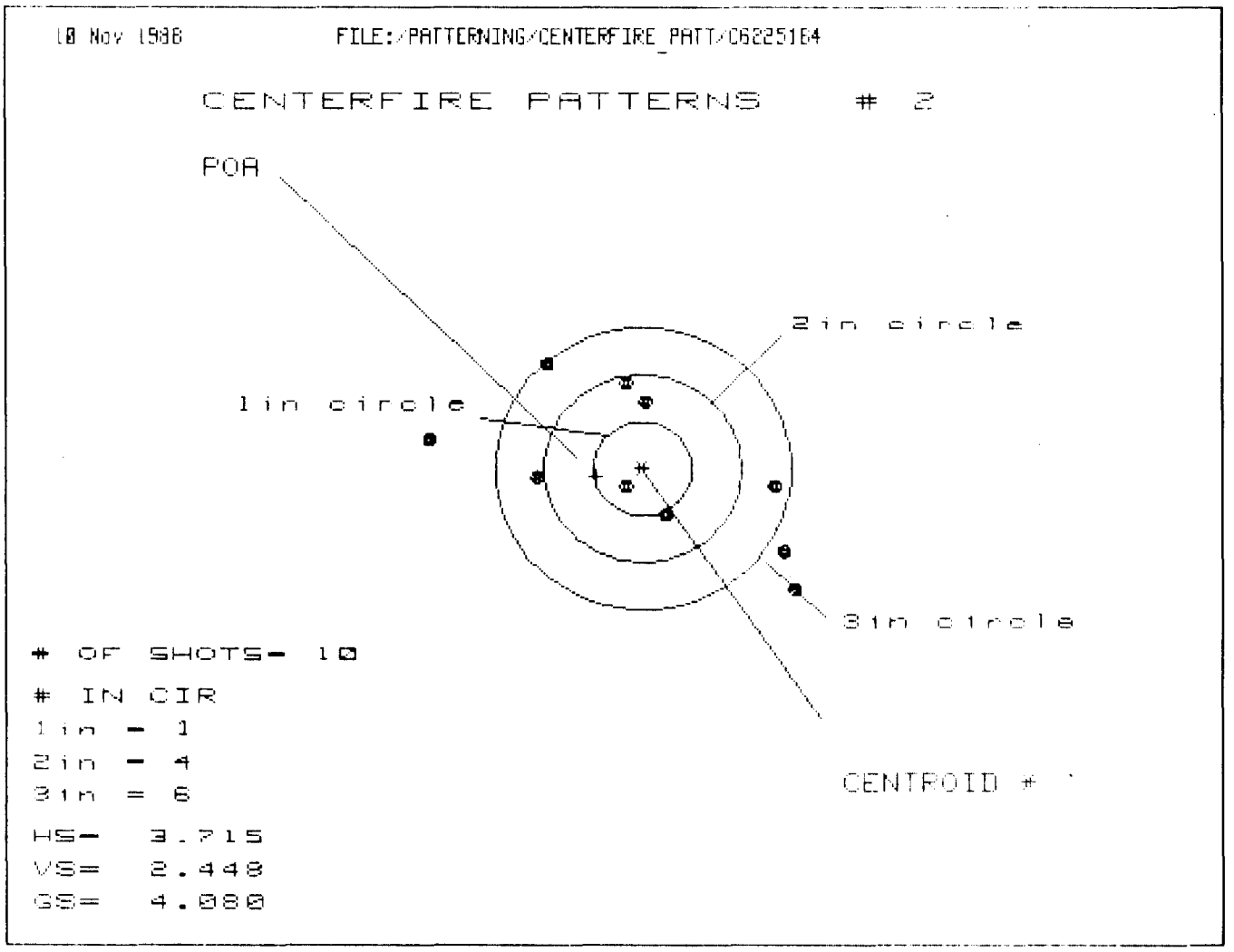


THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0378
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1192
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .12505

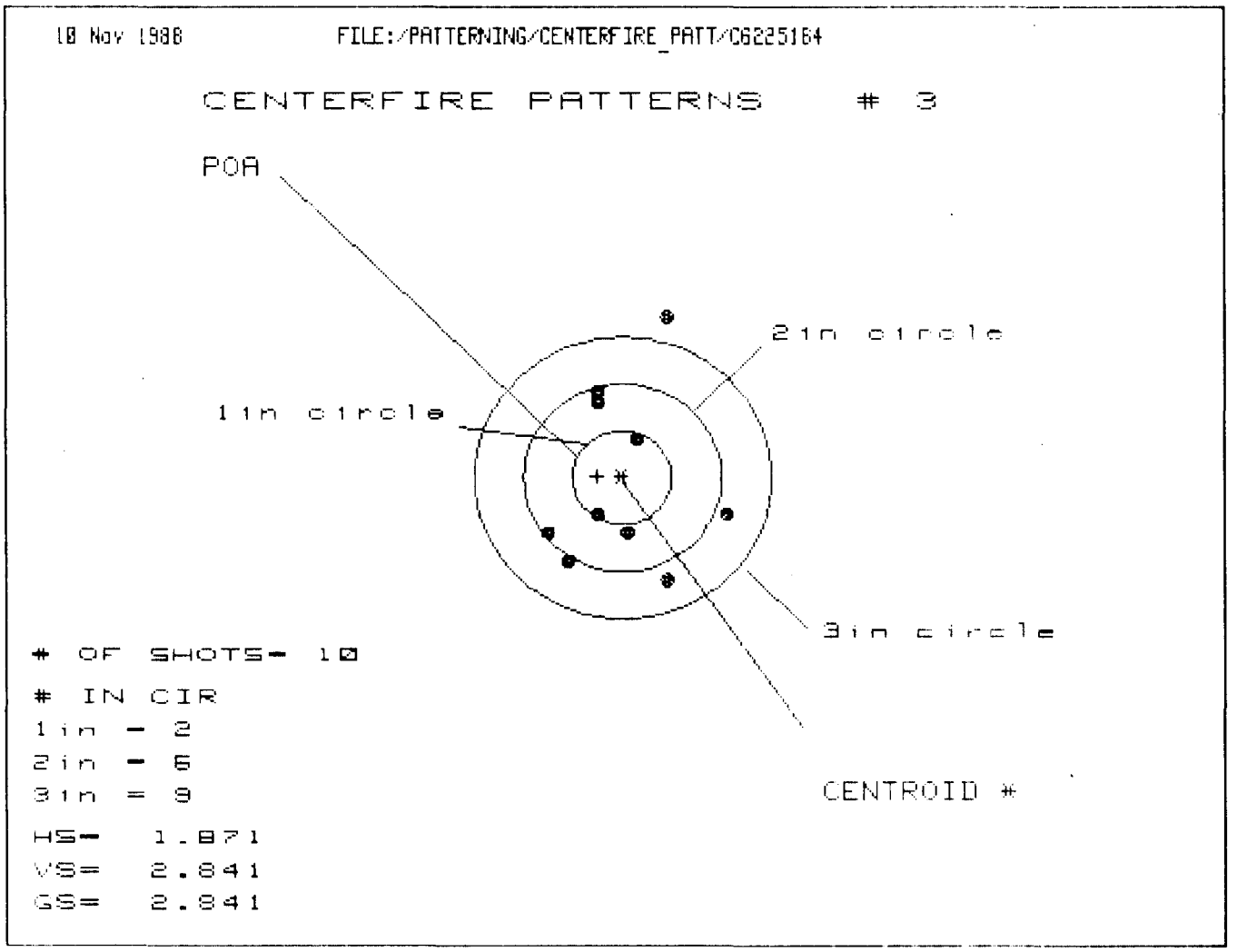
THE AMR FOR THIS RIFLE IS: 1.065



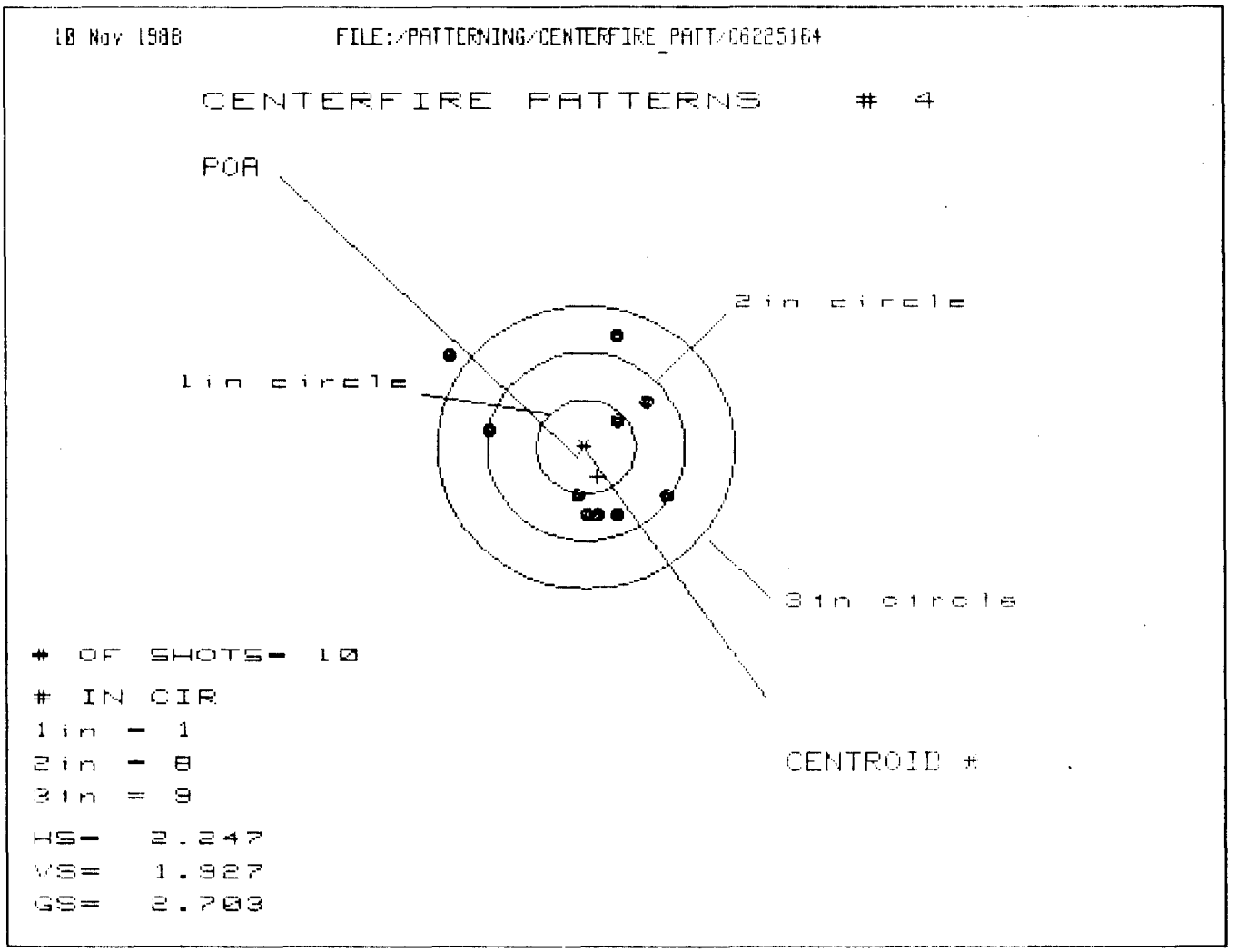
PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.028	1.131	.949
MINIMUM X	:	-1.553	-1.450	-.747
MAXIMUM Y	:	1.557	1.048	1.112
MINIMUM Y	:	-1.224	-1.051	-.987
CENTROID X	:	-.825	-.928	-.746
CENTROID Y	:	-.177	-.350	-.414
POA TO CENTROID in.	:	.844	.991	.854
MIN RADIUS	:	.574	.424	.600
MEAN RADIUS	:	1.124	1.011	.938
MAX RADIUS	:	1.809	1.540	1.385
HORIZONTAL SPREAD	:	2.581	2.581	1.696
VERTICAL SPREAD	:	2.781	2.099	2.099
EXTREME SPREAD	:	3.047	2.614	2.431
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		8	



PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.498	1.252	1.349
MINIMUM X	:	-2.217	-1.351	-1.194
MAXIMUM Y	:	1.120	1.160	.999
MINIMUM Y	:	-1.328	-1.288	-1.029
CENTROID X	:	.469	.715	.558
CENTROID Y	:	.083	.043	.204
POA TO CENTROID in.	:	.476	.716	.594
MIN RADIUS	:	.253	.440	.404
MEAN RADIUS	:	1.242	1.131	1.023
MAX RADIUS	:	2.246	1.796	1.696
HORIZONTAL SPREAD	:	3.715	2.603	2.543
VERTICAL SPREAD	:	2.448	2.448	2.028
EXTREME SPREAD	:	4.080	3.505	3.179
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	



PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.078	1.127	1.184
MINIMUM X	:	-.793	-.744	-.687
MAXIMUM Y	:	1.729	1.151	1.036
MINIMUM Y	:	-1.112	-.920	-.779
CENTROID X	:	.251	.202	.145
CENTROID Y	:	-.014	-.206	-.091
POA TO CENTROID in.	:	.251	.289	.171
MIN RADIUS	:	.464	.320	.370
MEAN RADIUS	:	.946	.820	.794
MAX RADIUS	:	1.784	1.163	1.225
HORIZONTAL SPREAD	:	1.871	1.871	1.871
VERTICAL SPREAD	:	2.841	2.071	1.815
EXTREME SPREAD	:	2.841	2.164	1.880
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	



PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.817	.658	.679
MINIMUM X	:	-1.430	-1.134	-1.113
MAXIMUM Y	:	1.174	1.288	.805
MINIMUM Y	:	-.753	-.639	-.478
CENTROID X	:	-.119	.040	.019
CENTROID Y	:	.315	.201	.040
POA TO CENTROID in.	:	.336	.205	.045
MIN RADIUS	:	.433	.420	.356
MEAN RADIUS	:	.893	.754	.646
MAX RADIUS	:	1.756	1.298	1.215
HORIZONTAL SPREAD	:	2.247	1.792	1.792
VERTICAL SPREAD	:	1.927	1.927	1.283
EXTREME SPREAD	:	2.703	1.928	1.922
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

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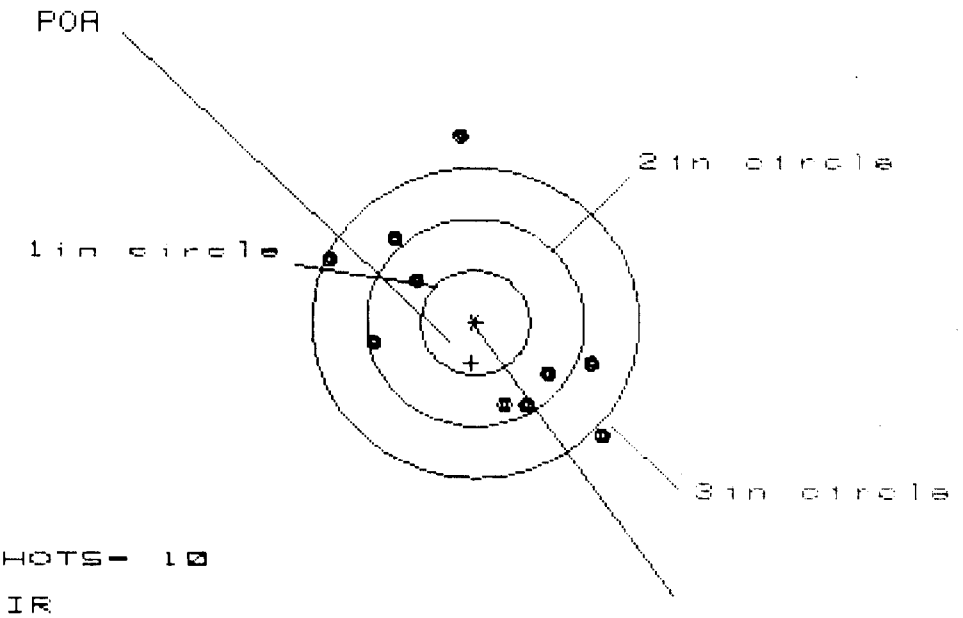
CENTERFIRE PATTERNS # 5



OF SHOTS= 10

# IN CIR
1in = 0
2in = 5
3in = 8

HS= 2.525
VS= 2.862
GS= 3.161

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.177	1.158	1.200
MINIMUM X	:	-1.348	-1.367	-1.222
MAXIMUM Y	:	1.806	.999	.892
MINIMUM Y	:	-1.056	-.855	-.662
CENTROID X	:	.035	.054	-.091
CENTROID Y	:	.389	.188	.295
POA TO CENTROID in.	:	.391	.196	.309
MIN RADIUS	:	.688	.609	.671
MEAN RADIUS	:	1.122	1.014	.964
MAX RADIUS	:	1.813	1.589	1.410
HORIZONTAL SPREAD	:	2.525	2.525	2.422
VERTICAL SPREAD	:	2.862	1.854	1.554
EXTREME SPREAD	:	3.161	3.025	2.612
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
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. C6225164
DATE 3/24/92
TESTER RW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.54	2.71	2.34		MIN. SETTING,
PULL #2	2.64	2.65	2.55		NO AVG. OF 5
PULL #3	2.53	2.62	2.67		READINGS ACCEPT-
PULL #4	2.54	2.65	2.61		ABLE LESS THAN 2#
PULL #5	2.55	2.63	2.66		
TOTAL	12.80	13.26	12.83		
AVG.	2.56	2.65	2.57		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.18	3.21		
PULL #2	3.23	3.32		
PULL #3	3.17	3.27		
PULL #4	3.21	3.27		
PULL #5	3.24	3.29		
TOTAL	16.03	16.36		
AVG.	3.21	3.27		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.23	4.12		4.17
PULL #2	4.22	4.08		4.14
PULL #3	4.15	4.10		4.10
PULL #4	4.26	4.23		4.13
PULL #5	4.30	4.10		4.12
TOTAL	21.16	20.63		20.66
AVG.	4.23	4.13		4.13

Scope # 1284
New Barrel

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225164

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock		12/2/93	RW
600	Proof		12/2/93	RW
607	Check Headspace		12/2/93	RW
610	Dis-assemble Gun		12/2/93	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		12/8/93	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		12/5/93	RW
	C) Inspect Ejector Hole for Chamfer		12/8/93	RW
	D) Oil Firing Pin Ass'y		12/8/93	RW
	E) Adjust Trigger Pull to Min Setting and Stake			

op. #	OP. NAME	READINGS					DATE	INIT
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						12/8/93	RW
	A) Time							
	B) Malfunctions							
	C) Pierced Primers							
	D) Optical Clearity of Scope							
645	Inspect for Live Ammo						12/8/93	RW
655	Final Inspection A) Headspace						12/9/93	RW
	B) Trigger Pull	2.34	2.35	2.31	2.28	2.26	12/9/93	RW
	C) Function						12/9/93	RW
660	Pack							

SWS/Repair

Final Inspection

S/N: C6225164	DATE REC'D: 11/23/93	DATE RET'D: 12/10/93

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: _____

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225164
10 Dec 1993

CENTROIDAL DISTANCES

Ø	TO	1	.468943
1	TO	2	.593671
1	TO	3	.835508.
1	TO	4	.255
1	TO	5	.834002

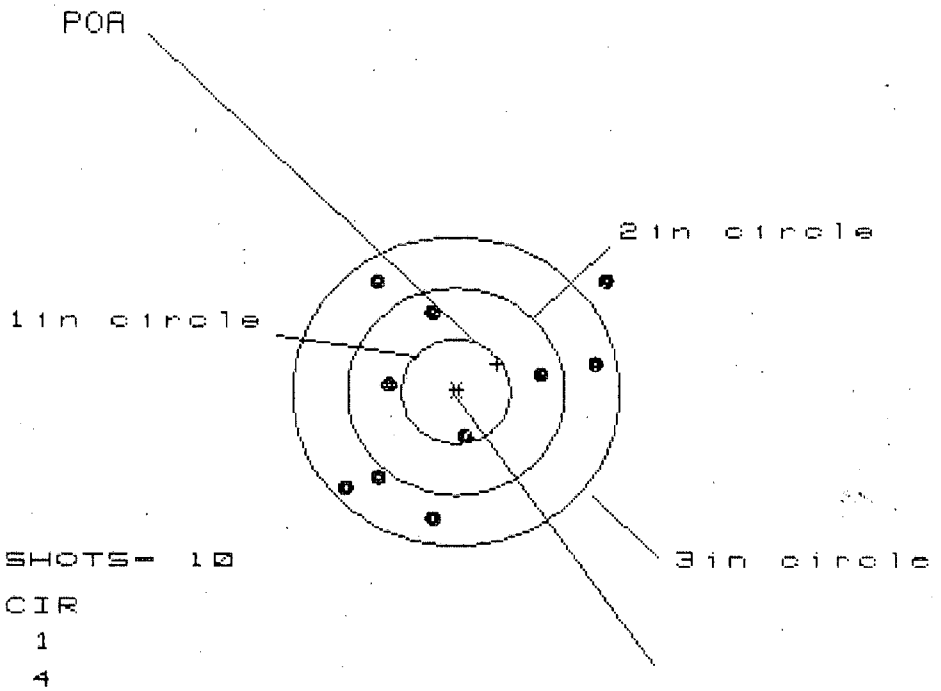
$_{1}4^{4}1_{2}^{5}3$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0672
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0652
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0936316

THE AMR FOR THIS RIFLE IS: 1.037

10 Dec 1993 FILE:/PATTERNING/CENTERFIRE_PATT/C6225184

CENTERFIRE PATTERNS # 1



# OF SHOTS= 10
# IN CIR
1in = 1
2in = 4
3in = 9
HS= 2.417
VS= 2.368
GS= 3.146

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.357	1.454	1.340
MINIMUM X	:	-1.060	-.909	-.709
MAXIMUM Y	:	1.112	1.193	1.096
MINIMUM Y	:	-1.256	-1.133	-1.230
CENTROID X	:	-.382	-.533	-.419
CENTROID Y	:	-.272	-.395	-.298
POA TO CENTROID in.	:	.469	.664	.514
MIN RADIUS	:	.405	.378	.394
MEAN RADIUS	:	1.077	.982	.951
MAX RADIUS	:	1.754	1.498	1.366
HORIZONTAL SPREAD	:	2.417	2.363	2.049
VERTICAL SPREAD	:	2.368	2.326	2.326
EXTREME SPREAD	:	3.146	2.623	2.372
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

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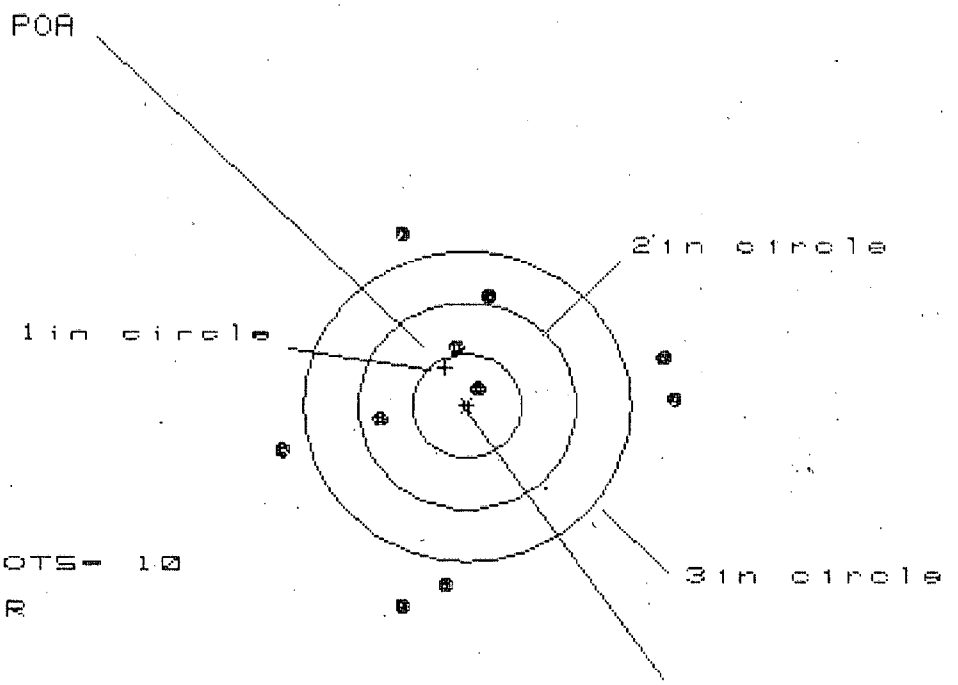
CENTERFIRE PATTERNS # 2



# OF SHOTS= 10
# IN CIR
1in = 1
2in = 3
3in = 4
HS= 3.635
VS= 3.661
GS= 3.669

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.927	1.856	1.928
MINIMUM X	:	-1.708	-1.779	-1.547
MAXIMUM Y	:	1.700	1.482	1.469
MINIMUM Y	:	-1.961	-1.901	-1.914
CENTROID X	:	.199	.270	.038
CENTROID Y	:	-.368	-.150	-.137
POA TO CENTROID in.	:	.419	.309	.142
MIN RADIUS	:	.225	.082	.307
MEAN RADIUS	:	1.381	1.255	1.175
MAX RADIUS	:	2.061	1.915	1.946
HORIZONTAL SPREAD	:	3.635	3.635	3.475
VERTICAL SPREAD	:	3.661	3.383	3.383
EXTREME SPREAD	:	3.669	3.669	3.585
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		4	

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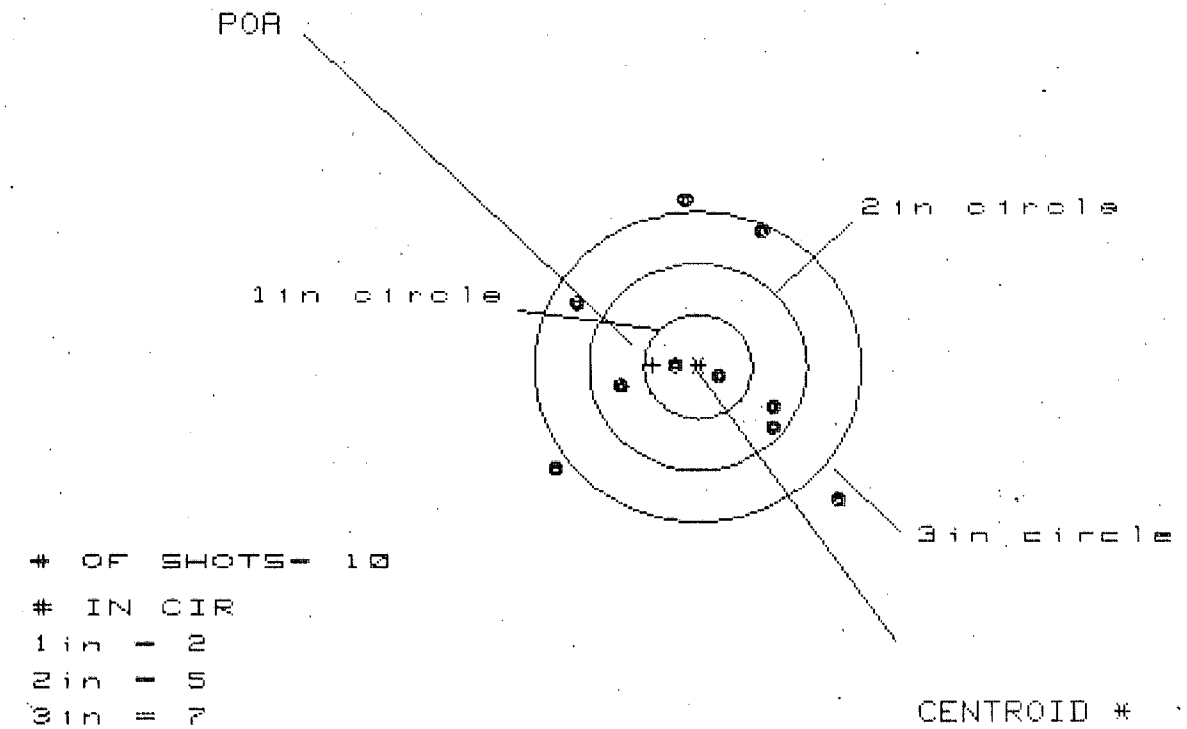
CENTERFIRE PATTERNS # 3



OF SHOTS= 10

# IN CIR
1in = 2
2in = 5
3in = 7

HS= 2.588
VS= 2.829
GS= 3.189

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.323	.868	.729
MINIMUM X	:	-1.265	-1.118	-1.105
MAXIMUM Y	:	1.566	1.425	1.285
MINIMUM Y	:	-1.263	-1.118	-.849
CENTROID X	:	.413	.266	.405
CENTROID Y	:	-.015	.126	.265
POA TO CENTROID in.	:	.413	.294	.485
MIN RADIUS	:	.200	.180	.371
MEAN RADIUS	:	1.055	.975	.914
MAX RADIUS	:	1.830	1.581	1.293
HORIZONTAL SPREAD	:	2.588	1.986	1.834
VERTICAL SPREAD	:	2.829	2.543	2.135
EXTREME SPREAD	:	3.189	2.931	2.276
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

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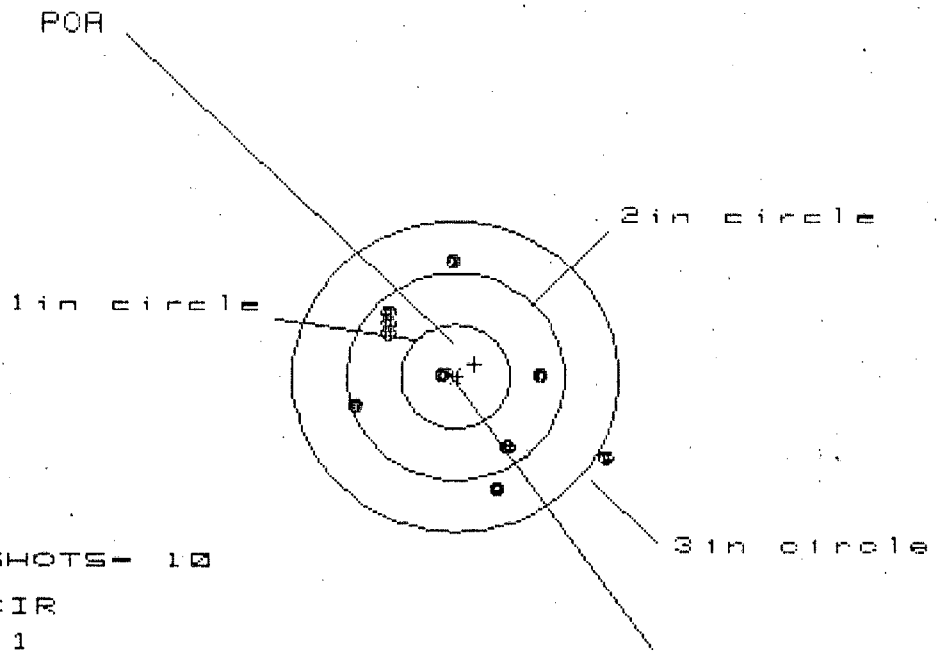
CENTERFIRE PATTERNS # 4



OF SHOTS= 10

# IN CIR
1in = 1
2in = 7
3in = 9

HS= 2.291
VS= 2.175
GS= 2.380

PATTERN #	:	44		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.344	.888	.905
MINIMUM X	:	-.947	-.798	-.781
MAXIMUM Y	:	1.139	1.056	.697
MINIMUM Y	:	-1.036	-1.119	-.987
CENTROID X	:	-.178	-.327	-.344
CENTROID Y	:	-.119	-.036	-.168
POA TO CENTROID in.	:	.214	.329	.383
MIN RADIUS	:	.084	.122	.089
MEAN RADIUS	:	.892	.799	.763
MAX RADIUS	:	1.536	1.248	1.140
HORIZONTAL SPREAD	:	2.291	1.686	1.686
VERTICAL SPREAD	:	2.175	2.175	1.684
EXTREME SPREAD	:	2.380	2.215	1.954
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

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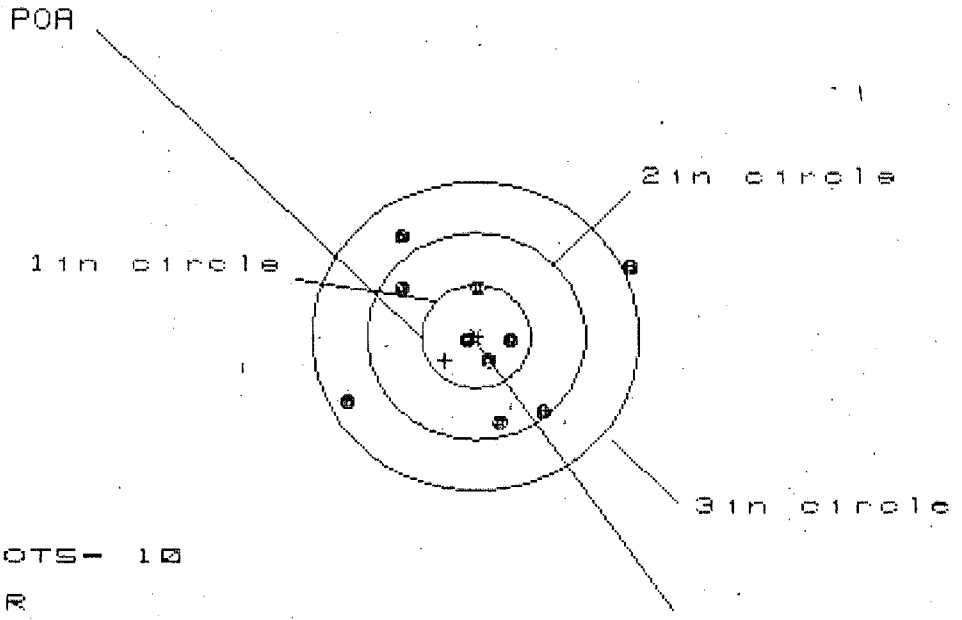
CENTERFIRE PATTERNS # 5



OF SHOTS= 10

# IN CIR
1in = 4
2in = 7
3in = 9

HS= 2.576
VS= 1.825
GS= 2.894

PATTERN #	:	25		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.435	.736	.613
MINIMUM X	:	-1.141	-.981	-.639
MAXIMUM Y	:	.966	1.038	.965
MINIMUM Y	:	-.859	-.787	-.860
CENTROID X	:	.284	.124	.247
CENTROID Y	:	.230	.158	.231
POA TO CENTROID in.	:	.365	.201	.338
MIN RADIUS	:	.111	.073	.075
MEAN RADIUS	:	.780	.695	.613
MAX RADIUS	:	1.578	1.153	1.149
HORIZONTAL SPREAD	:	2.576	1.717	1.252
VERTICAL SPREAD	:	1.825	1.825	1.825
EXTREME SPREAD	:	2.894	2.118	2.118
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	