

06523483

MODEL 700TM N24

Model 5145TM

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.



Smith[®]

Arms Services Repair & Estimate System

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Repair Inquiry

Repair Number: **RE00091848** Serial: C6523483 Model M24 SWS Center Fire Caliber 7.62 NATO BARREL and RECEIVER Repairman: Status: Closed 1/25/2005 2:17:50 PM

Verify Repair

Address Information

Customer: ☒ Received From: ☐ Return To: ☐ Received From:

Name: IL ARMY NATIONAL GUARD IL ARMY NATIONAL GUARD

Address 1: 1301 N MCARTHER BLVD 1301 N MCARTHER BLVD

Address 2: PO Box: PO Box:

City: SPRINGFIELD SPRINGFIELD

State: IL Zip Code: 62702 Country: US State: IL Zip Code: 62702 Country: US

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: NA Fax: Email: Comments:

Received Condition: Fair Condition Notes: CSR Notes:

Accessories Received:

Code	Desc	Qty
A013	Barrel Only	1
A014	Receiver Only	1

Repair Search Refresh Close

negletj 1/25/2005 2:32 PM CAPS NUM INS SCPL

start 4 3 3 3

Serial Number: **C6523483**

Model: **M24 SWS**



RE00091848

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)
3.00 LBS (plus or minus 0.75 LBS)
4.00 LBS (plus or minus 1.00 LBS)

SERIAL NO. _____

DATE

3-1-05

TESTER

TRL

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.64	2.57		2.43	
PULL #2	2.42	2.59		2.35	
PULL #3	2.23	2.35		2.34	
PULL #4	2.40	2.28		2.74	
PULL #5	2.51	2.33		2.25	
TOTAL	12.20	12.12		12.11	
AVERAGE	2.44	2.42		2.42	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.16	3.19		
PULL #2	3.08	3.59		
PULL #3	3.10	3.20		
PULL #4	3.10	3.20		
PULL #5	3.03	3.24		
TOTAL	15.47	16.42		
AVERAGE	3.09	3.28		

	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	4.40	4.15		4.17
PULL #2	4.40	4.20		4.13
PULL #3	4.37	4.18		4.26
PULL #4	4.37	4.19		4.22
PULL #5	4.33	4.18		4.20
TOTAL	21.87	20.90		20.98
AVERAGE	4.37	4.18		4.19

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523483.___0
FILE DATE AND TIME: 03/03/2005 06:19

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.011
The Average Y Centroid of the Five Target Set:	0.029
The Average Point of Impact of the Five Target Set:	0.031
The Average Mean Radius of the Five Target Set:	0.828
The Distance from POA to Centroid Target #1:	0.163
The Distance from Centroid Target #2 to Centroid Target #1:	0.109
The Distance from Centroid Target #3 to Centroid Target #1:	0.512
The Distance from Centroid Target #4 to Centroid Target #1:	0.364
The Distance from Centroid Target #5 to Centroid Target #1:	0.222

SERIAL NUMBER: C6523483. __0

TARGET NUMBER: 1

FILE DATE: 03/03/2005

FILE TIME: 06:19

POINT#	X	Y
1:	-1.750	-0.052
2:	-0.578	-0.311
3:	-0.205	-0.517
4:	-0.054	-0.181
5:	-0.235	-0.290
6:	0.430	-0.110
7:	0.170	-0.209
8:	0.420	0.330
9:	0.229	0.188
10:	0.031	0.628

X CENTROID: -0.154

Y CENTROID: -0.052

POA TO CENTROID: 0.163

HORZ SPREAD: 2.180

VERT SPREAD: 1.145

GROUP SPREAD: 2.203

MIN RADIUS: 0.163

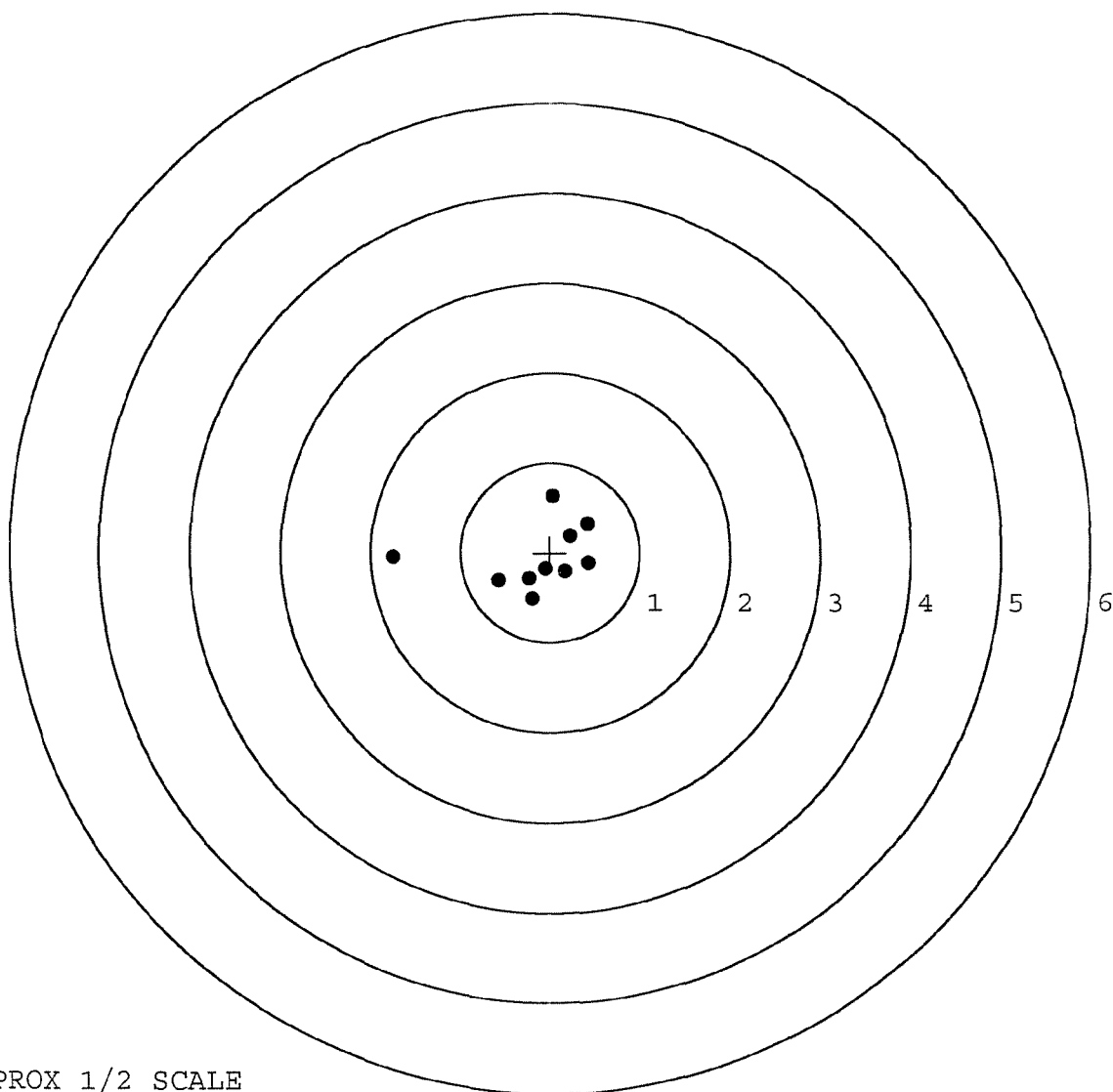
MAX RADIUS: 1.596

MEAN RADIUS: 0.577

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 9

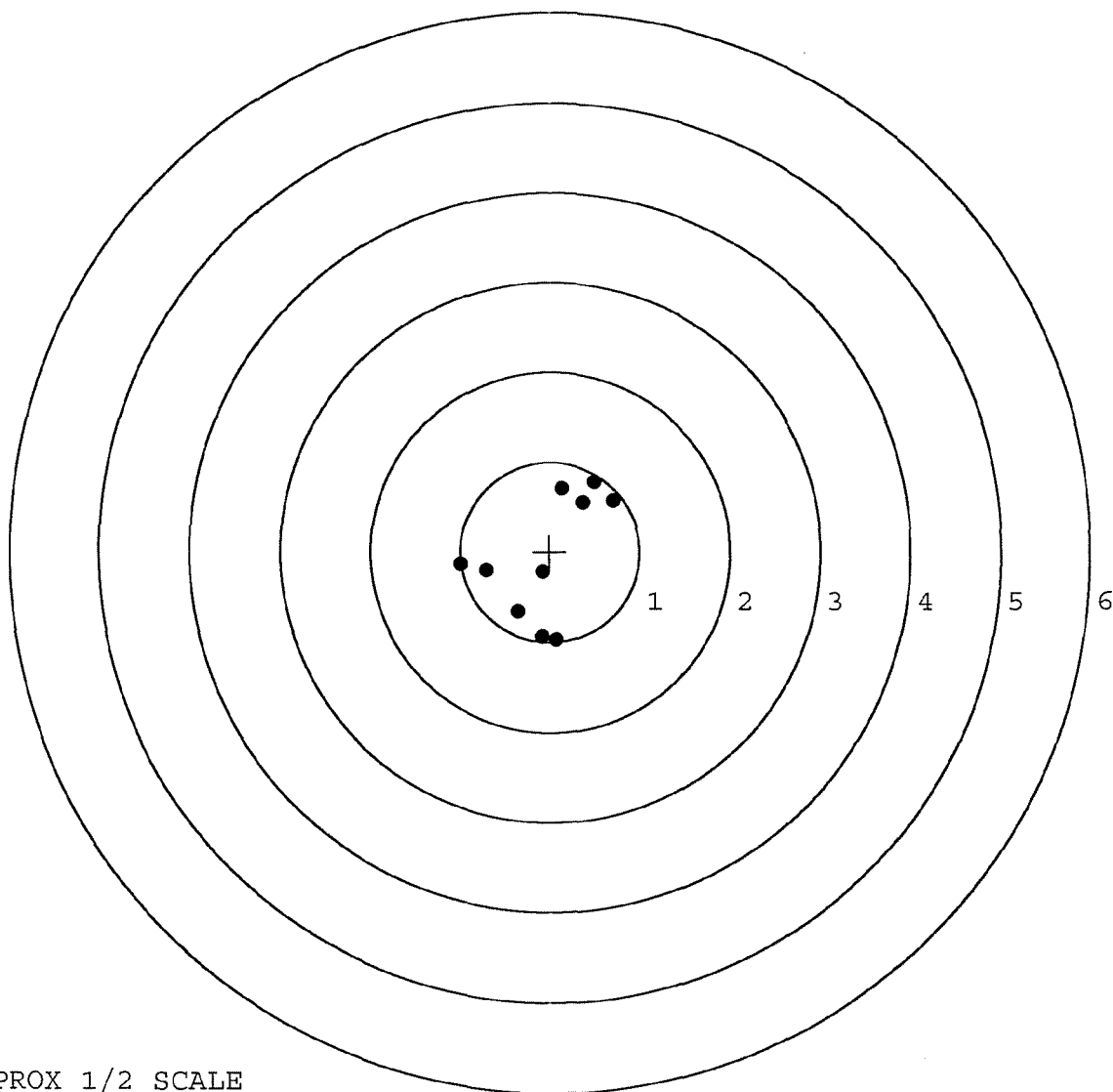


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523483. __0
TARGET NUMBER: 2
FILE DATE: 03/03/2005
FILE TIME: 06:19

X CENTROID: -0.046
Y CENTROID: -0.059
POA TO CENTROID: 0.074
HORZ SPREAD: 1.697
VERT SPREAD: 1.767
GROUP SPREAD: 1.827
MIN RADIUS: 0.175
MAX RADIUS: 1.001
MEAN RADIUS: 0.783
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.079	-0.986
2:	-0.093	-0.947
3:	-0.364	-0.673
4:	-0.710	-0.213
5:	-0.994	-0.142
6:	-0.085	-0.229
7:	0.703	0.567
8:	0.500	0.781
9:	0.370	0.552
10:	0.138	0.705

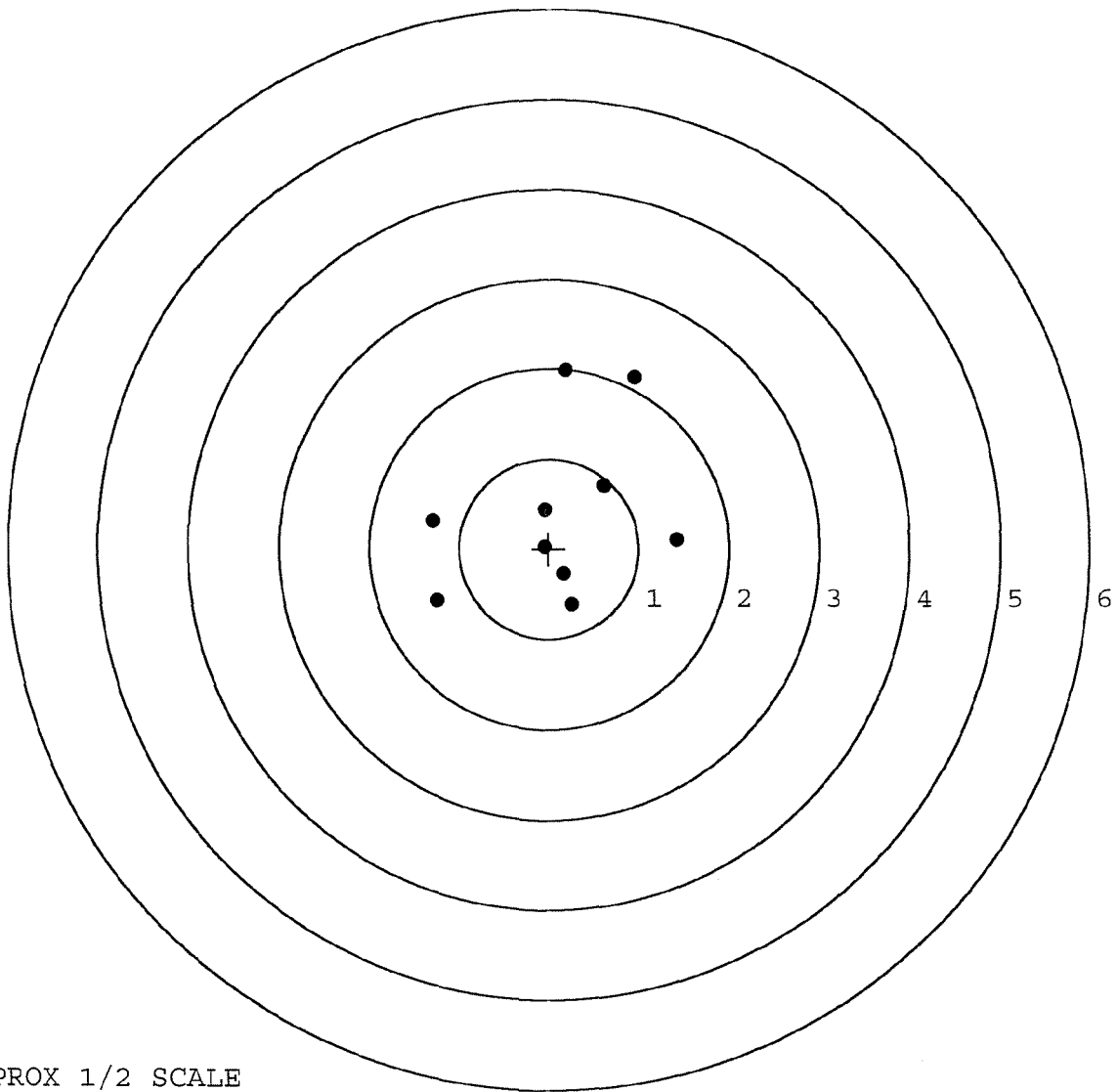


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523483. __0
TARGET NUMBER: 3
FILE DATE: 03/03/2005
FILE TIME: 06:19

X CENTROID: 0.084
Y CENTROID: 0.401
POA TO CENTROID: 0.410
HORZ SPREAD: 2.720
VERT SPREAD: 2.602
GROUP SPREAD: 3.325
MIN RADIUS: 0.139
MAX RADIUS: 1.739
MEAN RADIUS: 0.978
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.423	0.102
2:	0.619	0.701
3:	0.958	1.904
4:	0.191	1.981
5:	0.260	-0.621
6:	0.168	-0.284
7:	-0.052	0.022
8:	-0.050	0.439
9:	-0.050	0.439
10:	-1.248	-0.584
11:	-1.297	0.313



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523483. 0

TARGET NUMBER: 4

FILE DATE: 03/03/2005

FILE TIME: 06:19

POINT#	X	Y
1:	1.133	-1.744
2:	1.384	-0.228
3:	0.942	-0.035
4:	0.997	0.326
5:	0.189	0.206
6:	-0.183	0.603
7:	-0.183	-0.763
8:	-0.597	-0.689
9:	-1.104	-0.177
10:	-1.388	-0.430

X CENTROID: 0.119

Y CENTROID: -0.293

POA TO CENTROID: 0.316

HORZ SPREAD: 2.772

VERT SPREAD: 2.347

GROUP SPREAD: 2.843

MIN RADIUS: 0.504

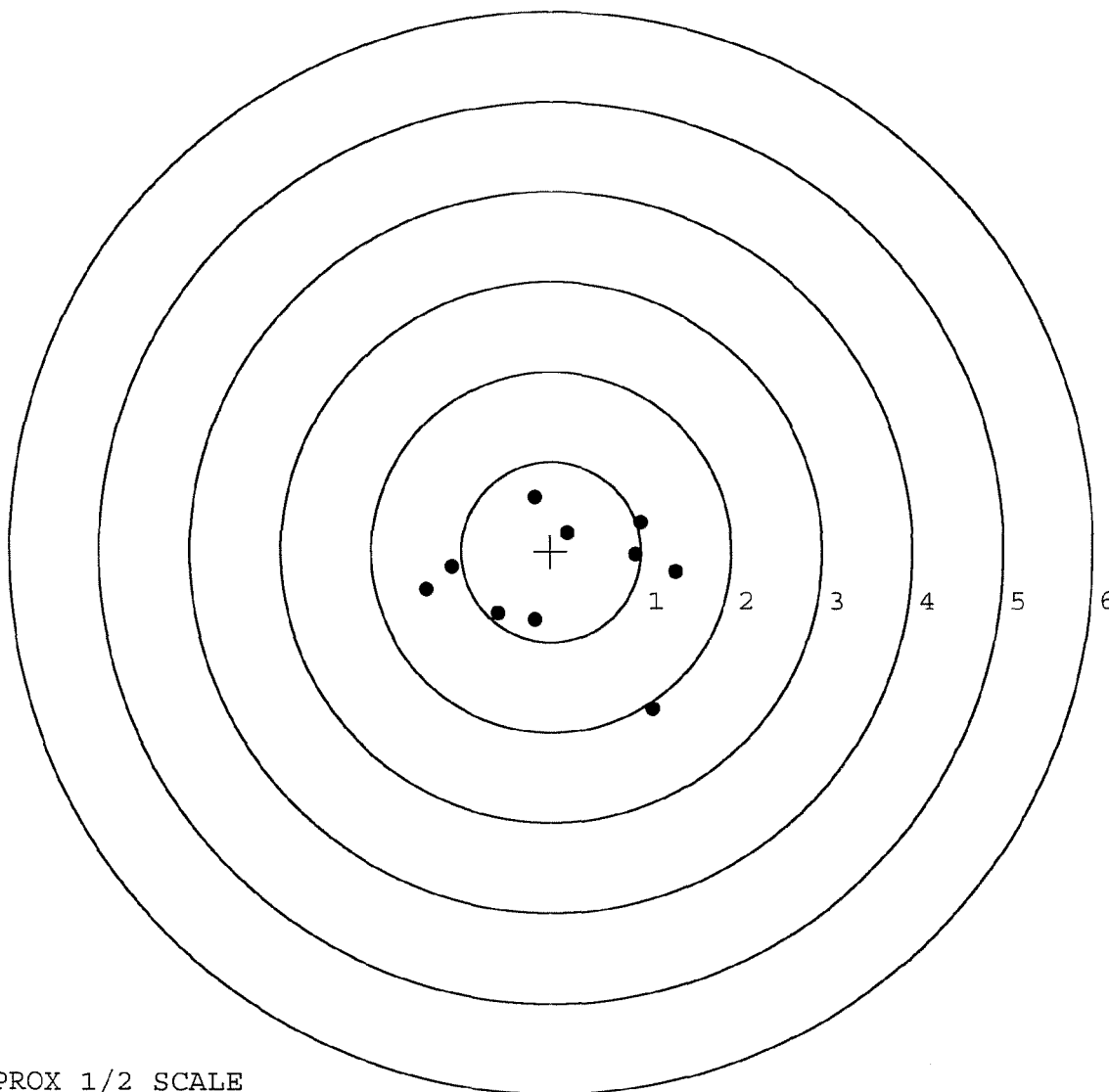
MAX RADIUS: 1.770

MEAN RADIUS: 1.054

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6523483. __0

TARGET NUMBER: 5

FILE DATE: 03/03/2005

FILE TIME: 06:19

POINT#	X	Y
1:	1.000	-0.068
2:	0.531	-0.417
3:	0.384	-0.253
4:	0.131	0.130
5:	0.137	0.307
6:	0.070	0.515
7:	0.053	1.359
8:	-0.943	0.290
9:	-0.653	-0.415
10:	-1.297	0.037

X CENTROID: -0.059

Y CENTROID: 0.148

POA TO CENTROID: 0.160

HORZ SPREAD: 2.297

VERT SPREAD: 1.776

GROUP SPREAD: 2.299

MIN RADIUS: 0.191

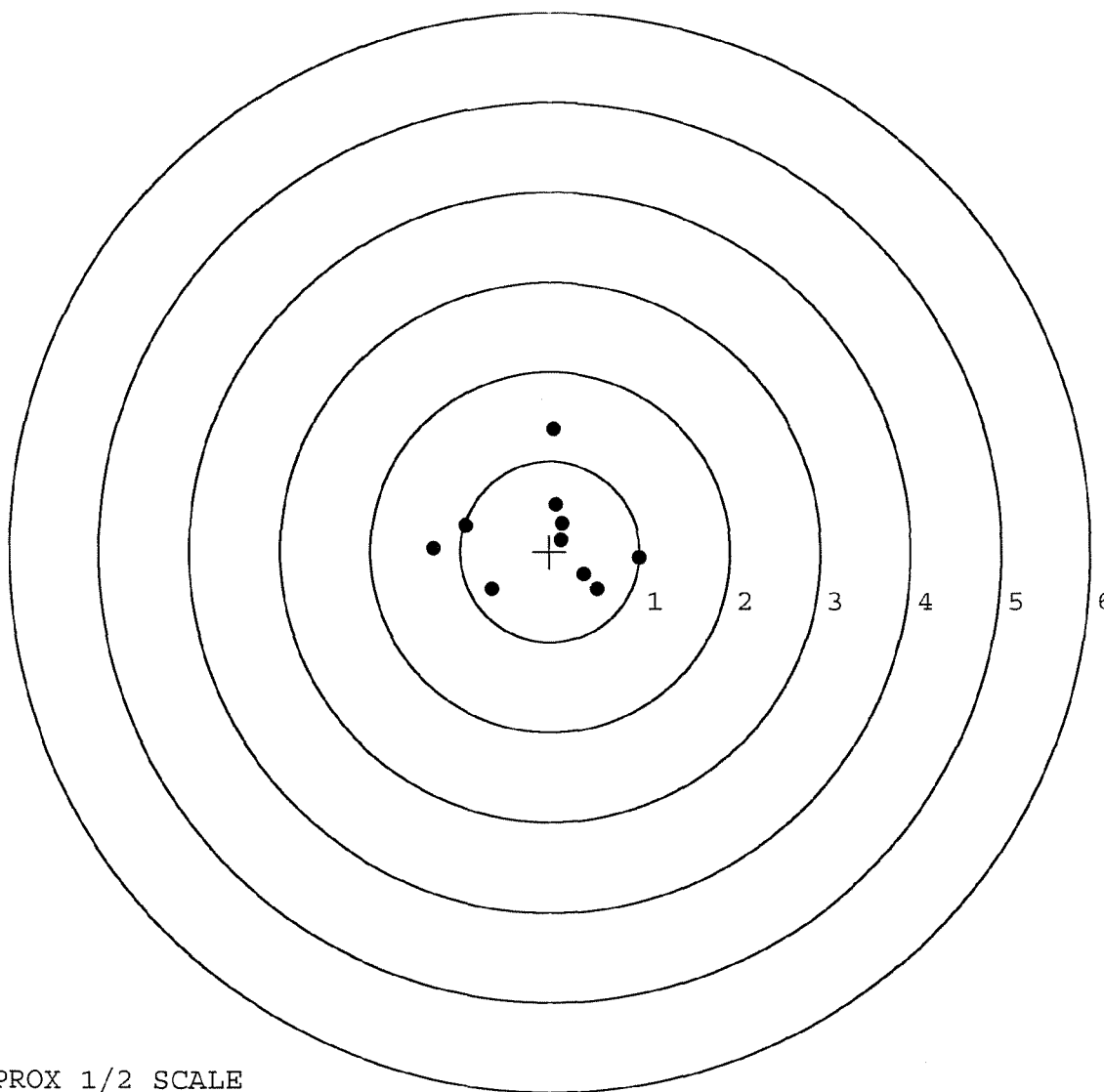
MAX RADIUS: 1.243

MEAN RADIUS: 0.750

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	91848		
SERIAL NUMBER	C6523483		
LOG-IN DATE	1-25-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	1-31-05	RTZ
560 A	RE-BARREL	2-12-05	RTZ
B	DRILL AND TAP	2-15-05	TRW
575	ASSEMBLE	2-12-05	RTZ
600	PROOF	2-14-05	MAGNA-FLUX INSPECTED FEB 15 2005
605	CHECK HEADSPACE	2-14-05	RTZ
610	DIS-ASSEMBLE GUN	2-14-05	RTZ
612	MAGNAFLUX		OPERATOR
615	ROLLMARK CALIBER	2-17-05	CW
618	ROTO-BLAST	2-17-05	LB
620	APPLY COATINGS	2/23/05	
625 A	FINAL ASSEMBLY	3-2-05	RTZ
B	TRIGGER PULL TEST	3-7-05	RTZ
C	SAFETY "ON" FORCE	3-7-05	RTZ
D	SAFETY "OFF" FORCE	3-7-05	RTZ
E	FIRING PIN INDENT	W-17	
640	TARGET	3-3-05	TRW
655	FINAL INSPECT	3-7-05	RTZ
660	PACK	3-7-05	RTZ
		SHIP DATE	
QAR INSPECTION DATE			

Remington
 MODEL 700™ M24

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

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

SERIAL NO.
 06520483

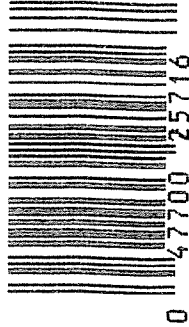
ORDER NO.
 5716

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



5716 06520483

LPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6523483

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	9 25	90	RW
600	Proof	9 25	90	RW
607	Check Headspace	9	90	RW
610	Dis-assemble Gun	9		RW
612	Magnaflux Barrel Action		9/26/90	KR
	Magnaflux Bolt		9/26/90	KR
615	Rollmark Caliber		9/26/90	LS
617	Drill and Tap Sight Holes		9/28/90	WB
618	Polish Barrel RB		10/1/90	WB
620	Apply Coatings (Barrel Action)		10/5/90	SA
	Apply Coating (Bolt)		10/5/90	SA
625	Final Assembly			
	A) Clean inside of Bolt Assembly		10/9/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		10/9/90	RW
	C) Inspect Ejector Hole for Chamfer		10/9/90	RW
	D) Oil Firing Pin Ass'y		10/9/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		10/22/90	JH

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			10/23/90	W.B.
	G) Safety Off Force	2	2	2			10/23/90	W.B.
	H) Trigger Pull Test & Retainability						10/22/90	JH
	I) Firing Pin Indent	.022	.021	.0215			10/23/90	W.B.
	J) Assemble Stock						10/26/90	RW
	K) Assemble Swivel Studs						11/19/90	JS
	L) Attach Front and Rear Sight Assemblies						10/26/90	RW
	M) Iron Sight Alignment						10/26/90	RW
	N) Detach Front & Rear Sights & place in numbered container						10/26/90	RW
	O) Attach Scope to Rifle						10/26/90	RW
	P) Detach & Attach Scope 20 Times						10/26/90	RW
640	Gallery Target & Test						10-29-90	AC
	A) Time						10-29-90	AC
	B) Malfunctions						10-29-90	AC
	C) Pierced Primers						10-29-90	AC
	D) Optical Clarity of Scope						10-29-90	AC
645	Inspect for Live Ammo						10-29-90	AC
655	Final Inspection							
	A) Headspace						11/19/90	JS
	B) Trigger Pull	243	237	243	242	239	11/19/90	JS
	C) Function						11/19/90	JS
660	Pack						12/18/90	N

SWS TRIGGER PULL TEST

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

SERIAL NO. C6523483

DATE 10/22/90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.47	2.39	2.25	2.43	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.35	2.26	2.26	2.31	
PULL #3	2.46	2.26	2.24	2.43	
PULL #4	2.21	2.17	2.27	2.42	
PULL #5	2.44	2.25	2.28	2.39	
TOTAL	11.93	11.33	11.30		
AVG.	2.386	2.266	2.26		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.40	3.41		
PULL #2	3.24	3.41		
PULL #3	3.37	3.41		
PULL #4	3.31	3.39		
PULL #5	3.42	3.43		
TOTAL	16.74	17.05		
AVG.	3.348	3.41		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.26	4.12		4.24
PULL #2	4.20	4.25		4.27
PULL #3	4.12	4.17		4.36
PULL #4	4.21	4.21		4.33
PULL #5	4.28	4.20		4.33
TOTAL	21.07	20.95		21.47
AVG.	4.214	4.19		4.294

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523483
29 Oct 1990

CENTROIDAL DISTANCES

0 TO	1	.175046
1 TO	2	.0874643
1 TO	3	.282857
1 TO	4	.480213
1 TO	5	.28878

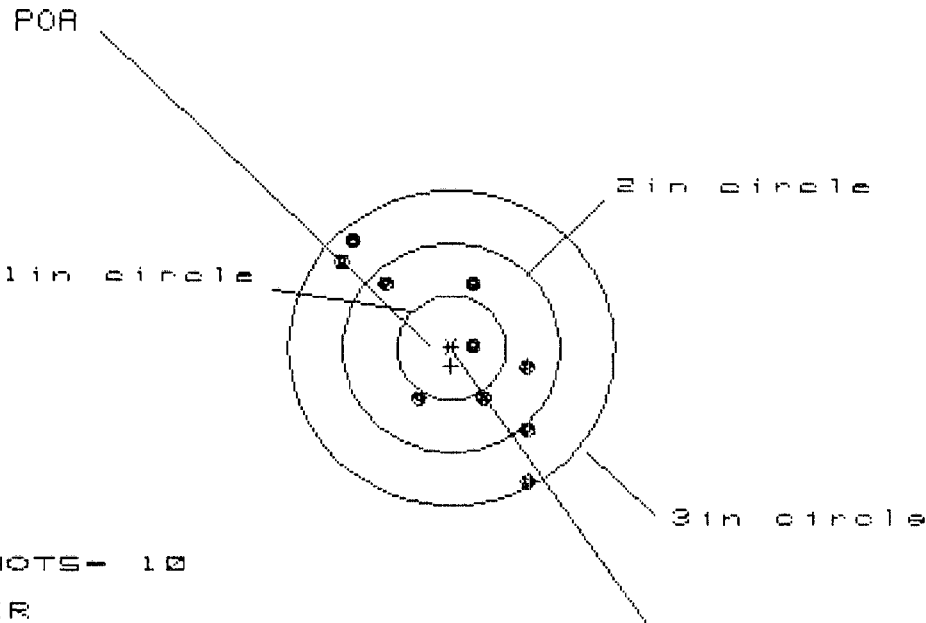
3f + <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0244
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1168
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .119321
THE AMR FOR THIS RIFLE IS: .732

29 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523483

CENTERFIRE PATTERNS # 1



OF SHOTS- 10
IN CIR
1 in = 1
2 in = 6
3 in = 10
HS= 1.758
VS= 2.326
GS= 2.826

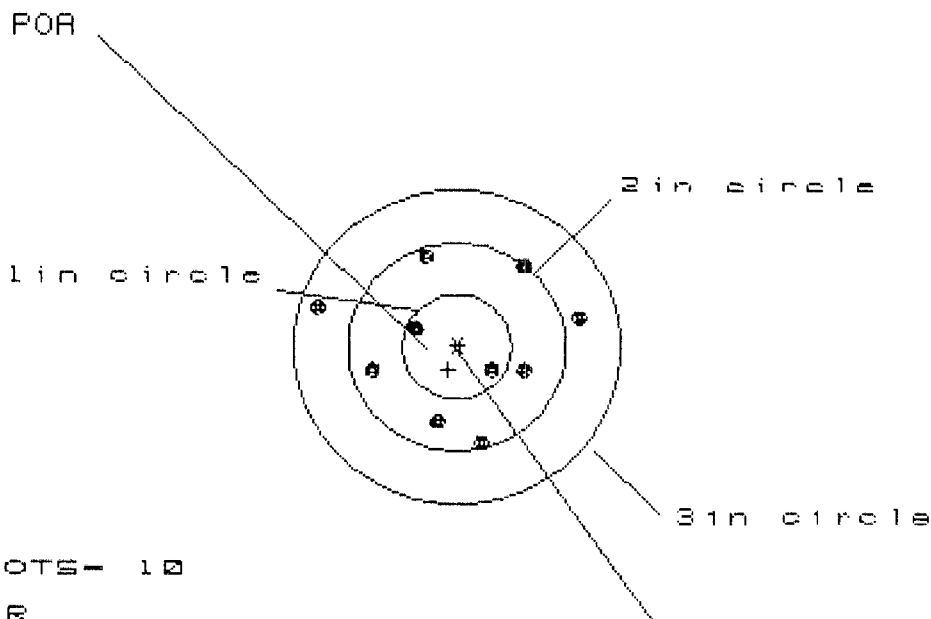
CENTROID #

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.737	.800	.782
MINIMUM X	:	-1.021	-.939	-1.037
MAXIMUM Y	:	1.027	.883	.825
MINIMUM Y	:	-1.299	-.893	-.783
CENTROID X	:	.004	-.078	.020
CENTROID Y	:	.175	.319	.209
POA TO CENTROID in.	:	.175	.329	.210
MIN RADIUS	:	.213	.322	.197
MEAN RADIUS	:	.877	.817	.741
MAX RADIUS	:	1.494	1.196	1.325
HORIZONTAL SPREAD	:	1.758	1.739	1.739
VERTICAL SPREAD	:	2.326	1.776	1.608
EXTREME SPREAD	:	2.826	2.378	2.365
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	6		
NUMBER IN THREE INCH CIRCLE	=	10		

29 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6523483

CENTERFIRE PATTERNS # 2



OF SHOTS- 10
IN CIR
1in = 2
2in = 8
3in = 10
IG= 2.380
VS= 1.793
GS= 2.382

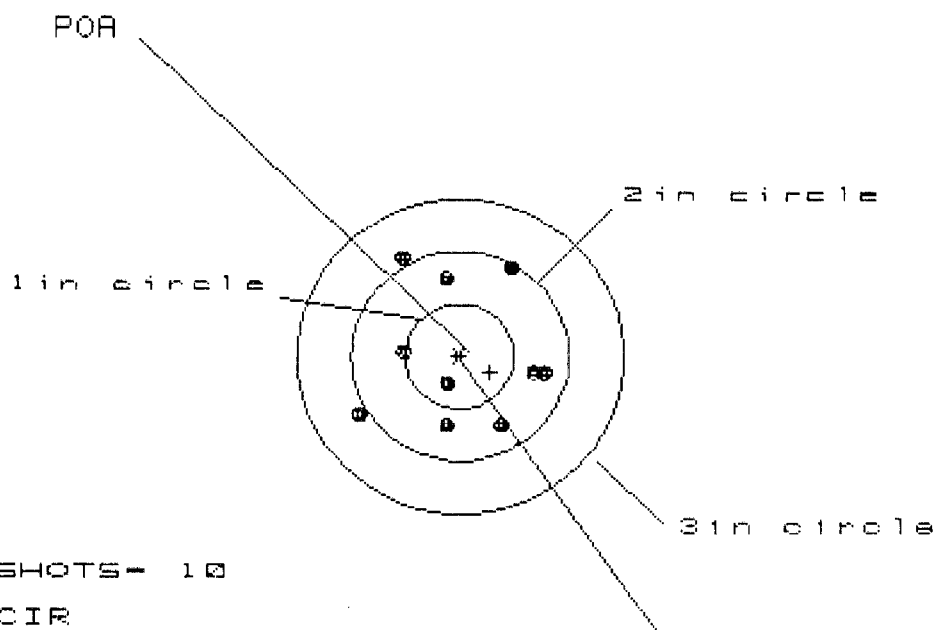
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.109	.967	.622
MINIMUM X	:	-1.271	-.965	-.844
MAXIMUM Y	:	.837	.883	.929
MINIMUM Y	:	-.956	-.910	-.864
CENTROID X	:	.079	.221	.100
CENTROID Y	:	.220	.174	.128
POA TO CENTROID in.	:	.233	.281	.163
MIN RADIUS	:	.438	.300	.373
MEAN RADIUS	:	.844	.773	.733
MAX RADIUS	:	1.337	1.033	1.033
HORIZONTAL SPREAD	:	2.380	1.932	1.466
VERTICAL SPREAD	:	1.793	1.793	1.793
EXTREME SPREAD	:	2.382	2.018	1.844
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

29 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C65234B3

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS= 1.725

VS= 1.618

GS= 2.018

CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.824	.724	.651
MINIMUM X	:	-.901	-.652	-.726
MAXIMUM Y	:	.950	.885	.917
MINIMUM Y	:	-.668	-.733	-.623
CENTROID X	:	-.278	-.178	-.104
CENTROID Y	:	.153	.218	.108
POA TO CENTROID in.	:	.317	.281	.150
MIN RADIUS	:	.303	.402	.360
MEAN RADIUS	:	.773	.741	.680
MAX RADIUS	:	1.073	1.061	.973
HORIZONTAL SPREAD	:	1.725	1.376	1.376
VERTICAL SPREAD	:	1.618	1.618	1.540
EXTREME SPREAD	:	2.018	1.812	1.674
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

29 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C65234B3

CENTERFIRE PATTERNS

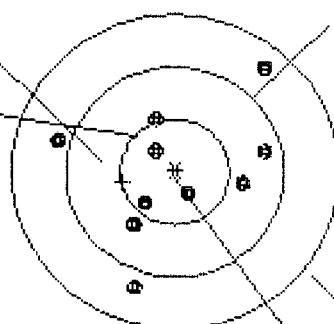
4

POA

1in circle

2in circle

3in circle



CENTROID #

OF SHOTS- 10

IN CIR

1in = 3

2in = 7

3in = 10

IS= 1.927

VS= 2.036

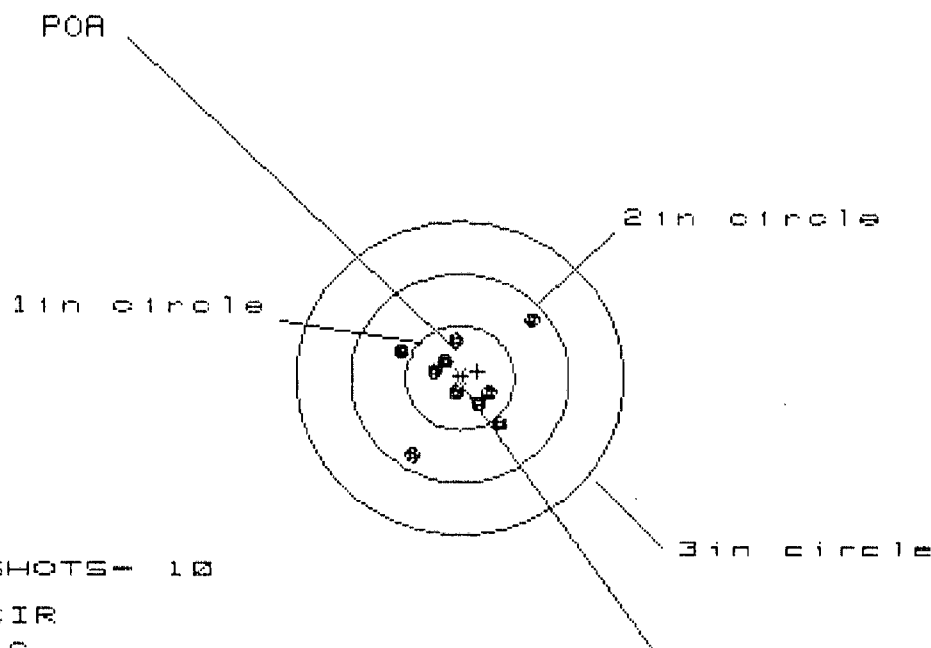
GS= 2.365

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.859	.953	.920
MINIMUM X	:	-1.068	-.974	-1.007
MAXIMUM Y	:	.954	.583	.461
MINIMUM Y	:	-1.082	-.976	-.498
CENTROID X	:	.478	.384	.417
CENTROID Y	:	.098	-.008	.114
POA TO CENTROID in.	:	.488	.384	.432
MIN RADIUS	:	.258	.245	.217
MEAN RADIUS	:	.709	.633	.582
MAX RADIUS	:	1.274	1.072	1.058
HORIZONTAL SPREAD	:	1.927	1.927	1.927
VERTICAL SPREAD	:	2.036	1.559	.959
EXTREME SPREAD	:	2.365	1.934	1.934
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

29 Oct 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8523483

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1in = 6

2in = 10

3in = 10

HS= 1.227

VS= 1.300

GS= 1.727

CENTROID +

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.690	.475	.429
MINIMUM X	:	-.537	-.460	-.506
MAXIMUM Y	:	.609	.476	.398
MINIMUM Y	:	-.691	-.624	-.408
CENTROID X	:	-.161	-.238	-.192
CENTROID Y	:	-.062	-.129	-.051
POA TO CENTROID in.	:	.173	.271	.199
MIN RADIUS	:	.123	.056	.126
MEAN RADIUS	:	.457	.398	.352
MAX RADIUS	:	.920	.725	.592
HORIZONTAL SPREAD	:	1.227	.935	.935
VERTICAL SPREAD	:	1.300	1.100	.806
EXTREME SPREAD	:	1.727	1.171	1.171
NUMBER IN ONE INCH CIRCLE	=		6	
NUMBER IN TWO INCH CIRCLE	=		10	
NUMBER IN THREE INCH CIRCLE	=		10	

MOD. _____ GA. _____ GUN # 6523483
 CAL. _____

# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st	Shaver brass & don't eject Brass in ejector hole	DW
	2nd	100 Rds OK	AC
	3rd	Oct 51, 1950	
	4th		
		FUNCTION	RD 6554 Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	Ream ejector Hole or Polish ejector	10
TEST		30
TGT		40 du
PROOF		
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		