

C6611786

MODEL 700™ M24

Model **SWS**™

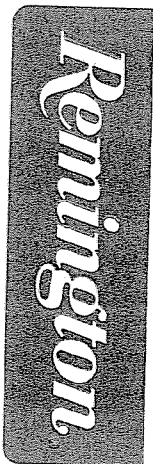
Action

Barrel Length

Capacity

Order No. **5715**

*Includes 1 in chamber.



SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611786.__0

FILE DATE AND TIME: 06/29/2006 17:49

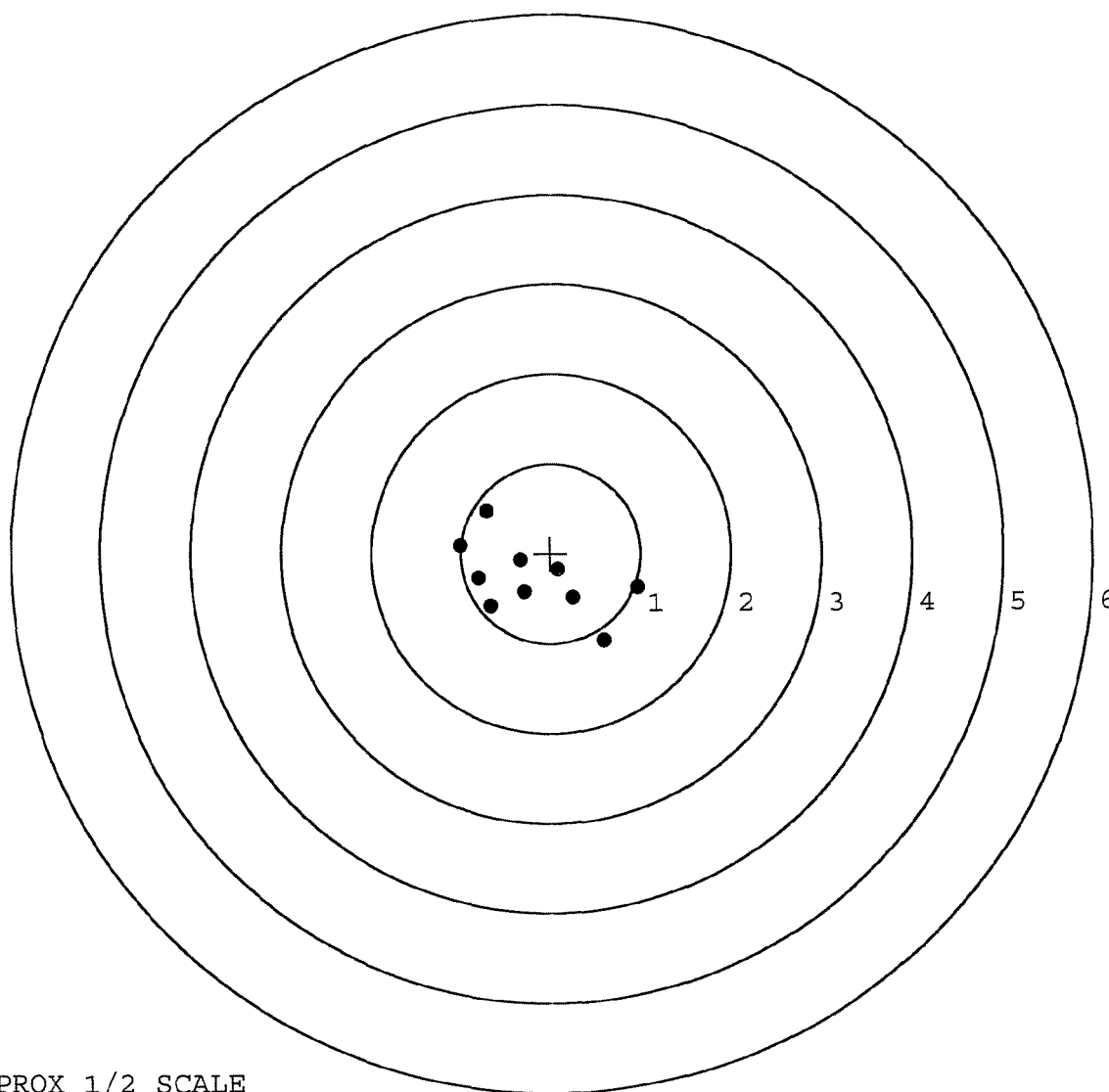
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.009
The Average Y Centroid of the Five Target Set:	-0.093
The Average Point of Impact of the Five Target Set:	0.094
The Average Mean Radius of the Five Target Set:	0.630
The Distance from POA to Centroid Target #1:	0.342
The Distance from Centroid Target #2 to Centroid Target #1:	0.222
The Distance from Centroid Target #3 to Centroid Target #1:	0.363
The Distance from Centroid Target #4 to Centroid Target #1:	0.247
The Distance from Centroid Target #5 to Centroid Target #1:	0.634

SERIAL NUMBER: C6611786. __0
TARGET NUMBER: 1
FILE DATE: 06/29/2006
FILE TIME: 17:49

X CENTROID: -0.192
Y CENTROID: -0.283
POA TO CENTROID: 0.342
HORZ SPREAD: 1.973
VERT SPREAD: 1.445
GROUP SPREAD: 2.029
MIN RADIUS: 0.179
MAX RADIUS: 1.166
MEAN RADIUS: 0.641
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.717	0.478
2:	-1.003	0.092
3:	-0.800	-0.270
4:	-0.670	-0.584
5:	-0.296	-0.429
6:	-0.336	-0.079
7:	0.082	-0.186
8:	0.253	-0.500
9:	0.595	-0.967
10:	0.970	-0.381

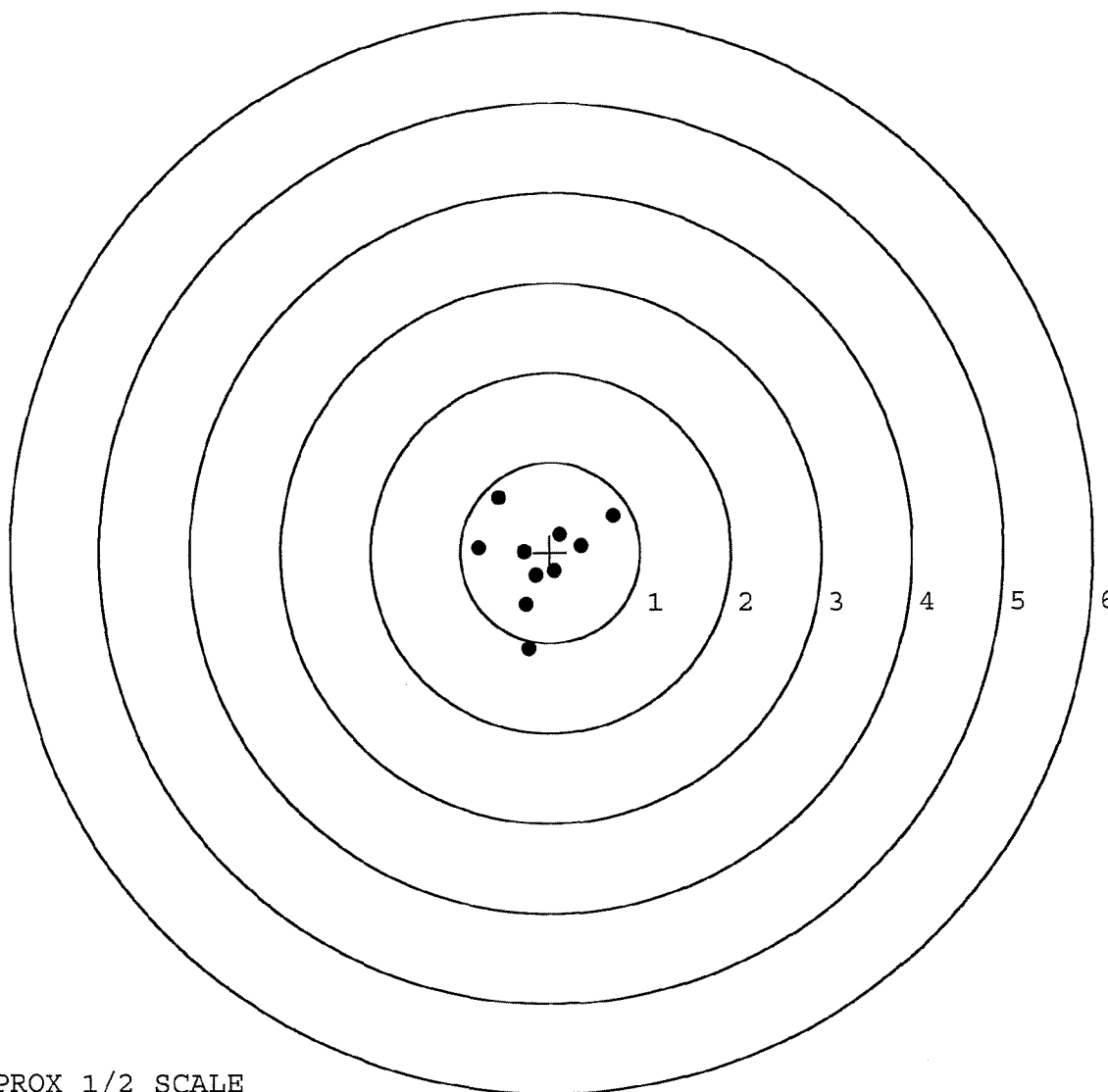


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611786. __0
TARGET NUMBER: 2
FILE DATE: 06/29/2006
FILE TIME: 17:49

X CENTROID: -0.111
Y CENTROID: -0.076
POA TO CENTROID: 0.135
HORZ SPREAD: 1.490
VERT SPREAD: 1.683
GROUP SPREAD: 1.744
MIN RADIUS: 0.186
MAX RADIUS: 1.003
MEAN RADIUS: 0.542
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.574	0.612
2:	-0.795	0.057
3:	-0.288	0.007
4:	0.053	-0.211
5:	0.352	0.075
6:	0.113	0.196
7:	0.695	0.403
8:	-0.160	-0.256
9:	-0.273	-0.575
10:	-0.237	-1.071

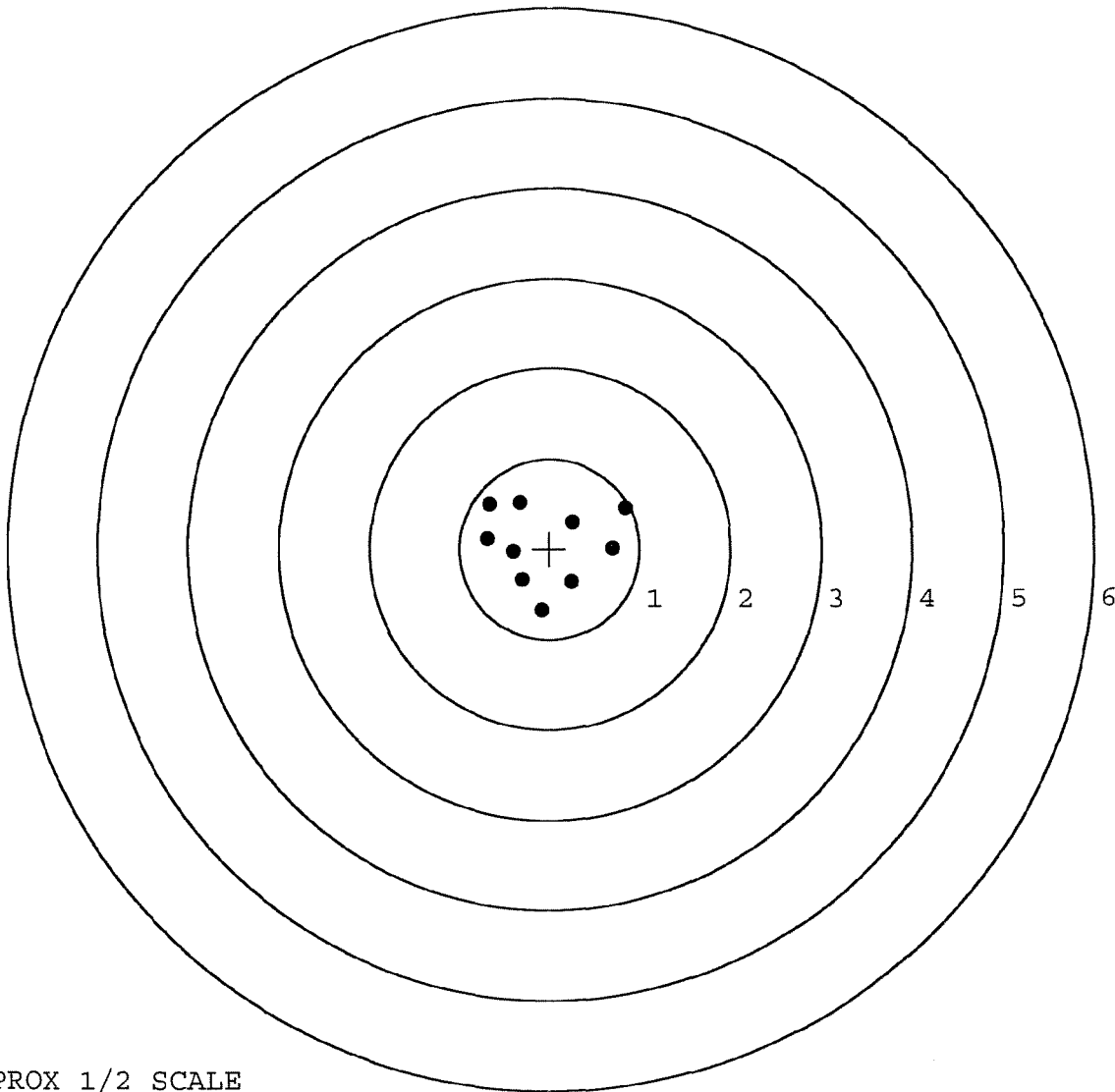


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611786. __0
TARGET NUMBER: 3
FILE DATE: 06/29/2006
FILE TIME: 17:49

X CENTROID: -0.044
Y CENTROID: 0.048
POA TO CENTROID: 0.065
HORZ SPREAD: 1.525
VERT SPREAD: 1.203
GROUP SPREAD: 1.562
MIN RADIUS: 0.365
MAX RADIUS: 0.968
MEAN RADIUS: 0.616
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.670	0.502
2:	-0.331	0.520
3:	-0.690	0.118
4:	-0.400	-0.029
5:	-0.302	-0.342
6:	-0.088	-0.683
7:	0.248	-0.370
8:	0.256	0.300
9:	0.705	0.010
10:	0.835	0.455



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611786. __0

TARGET NUMBER: 4

FILE DATE: 06/29/2006

FILE TIME: 17:49

POINT#	X	Y
1:	0.177	0.460
2:	-0.088	0.226
3:	-0.006	-0.143
4:	0.248	-0.320
5:	0.485	-0.264
6:	0.564	0.073
7:	-0.434	-0.019
8:	-0.386	-0.670
9:	0.318	-1.114
10:	-0.462	-0.251

X CENTROID: 0.042

Y CENTROID: -0.202

POA TO CENTROID: 0.206

HORZ SPREAD: 1.026

VERT SPREAD: 1.574

GROUP SPREAD: 1.580

MIN RADIUS: 0.076

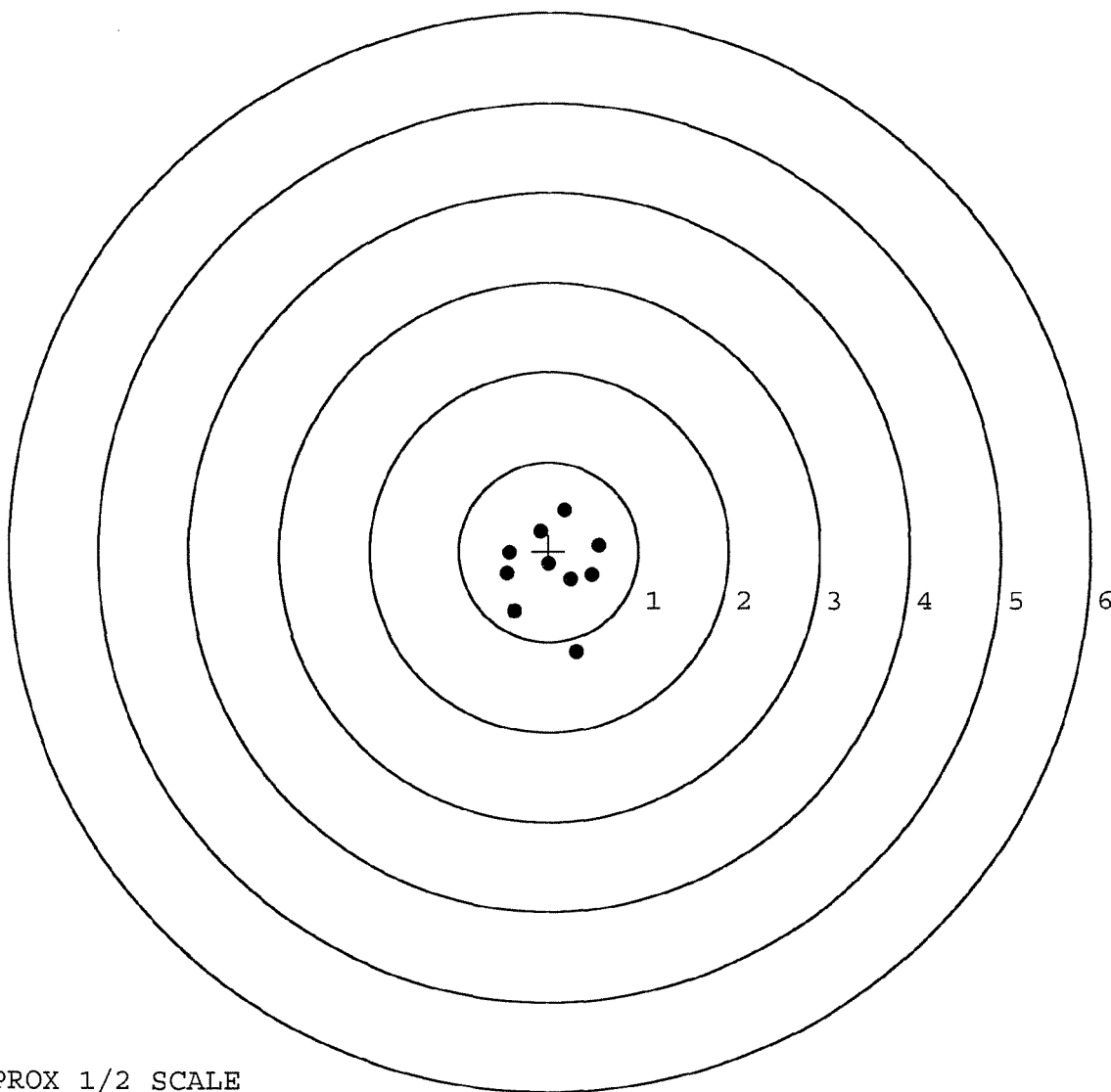
MAX RADIUS: 0.953

MEAN RADIUS: 0.508

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611786. __0

TARGET NUMBER: 5

FILE DATE: 06/29/2006

FILE TIME: 17:49

POINT#	X	Y
1:	-0.231	-0.732
2:	-0.558	-0.311
3:	-0.335	-0.133
4:	-0.462	0.278
5:	-0.018	0.393
6:	0.219	0.705
7:	0.411	0.182
8:	0.879	-0.300
9:	1.643	0.478
10:	1.948	-0.102

X CENTROID: 0.350

Y CENTROID: 0.046

POA TO CENTROID: 0.353

HORZ SPREAD: 2.506

VERT SPREAD: 1.437

GROUP SPREAD: 2.515

MIN RADIUS: 0.149

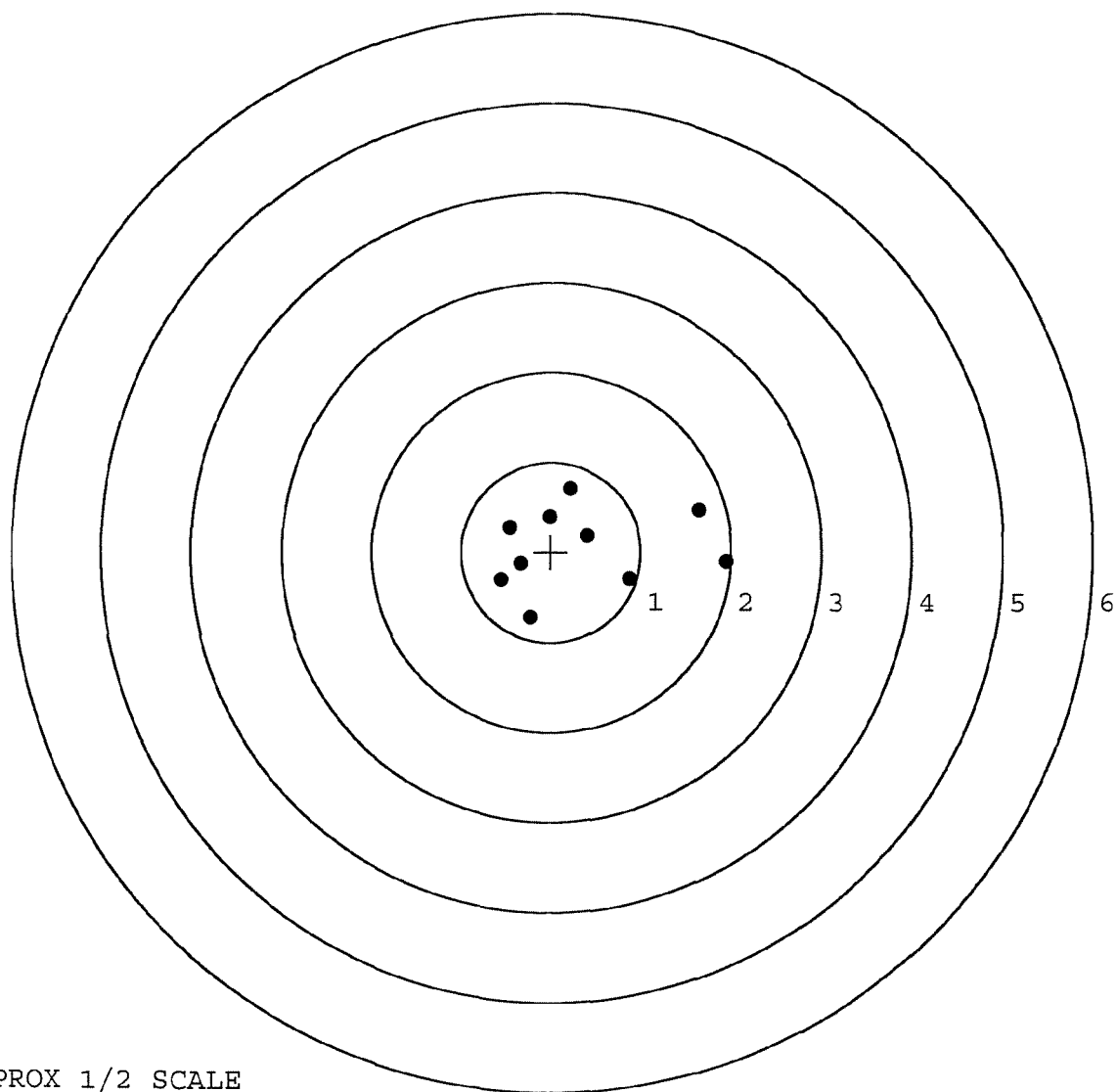
MAX RADIUS: 1.605

MEAN RADIUS: 0.843

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	112947		
SERIAL NUMBER	C6611786		
LOG-IN DATE	5-30-06		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	6-12-06	RTZ
505	RE-BARREL	6-20-06	RTZ
560	ASSEMBLE	6-20-06	RTZ
600	PROOF	MAGNA-FLUX INSPECTED JUN 23 2006 6-20-06	TRW
605	CHECK HEADSPACE	6-20-06	TRW
610	DIS-ASSEMBLE GUN	6-21-06	RTZ
612	MAGNAFLUX	6-23-06	unl
510	DRILL AND TAP	6-22-06	TRW
615	ROLLMARK CALIBER	6-22-06	AW
618	ROTO-BLAST	6-23-06	LB
620	APPLY COATINGS	6-28-06	RTZ
625	FINAL ASSEMBLY	6-29-06	RTZ
640	FUNCTION TEST AND	PASS FAIL 6-29-06	L.P.D.
650	TARGET	PASS FAIL 6-29-06	L.P.D.
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	7-5-06	Ac
	A) HEADSPACE	PASS FAIL 7-5-06	Ac
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	N/A AC
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX 6 16s 6 16s 6 16s	AC
	G) SAFETY OFF FORCE	2 LBS 3 16s 3 16s 3 16s	AC
	I) FIRING PIN INDENT	.020 .023 .023 .023	AC
690	PACK	8-3-06	RA



MODEL 700™ H24

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

20

SERIAL NO.
C6611786

ORDER NO.
5716



5716 C6611786

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

UPC



0 47700 25716 7

CFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6611786

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		1/22/91	KS
600	Proof		1/22/91	KS
607	Check Headspace		1/22/91	KS
610	Dis-assemble Gun		1/22/91	KS
612	Magnaflux Barrel Action		1/29/91	KR
	Magnaflux Bolt		"	KR
615	Rollmark Caliber		"	LS
617	Drill and Tap Sight Holes	2 2 91		LB
618	Polish Barrel RBB	2 2 91		WB
620	Apply Coatings (Barrel Action)		2-11-91	JA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		2/18/91	Kd
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/18/91	Kd
	C) Inspect Ejector Hole for Chamfer		2/18/91	Kd
	D) Oil Firing Pin Ass'y		2/18/91	LA
	E) Adjust Trigger Pull to Min Setting and Stake		2-21-91	VH

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	4 ³ / ₄	5			2-21-91	DH
	G) Safety Off Force	2	2	2			2-21-91	DH
	H) Trigger Pull Test & Retainability						2-21-91	DH
	I) Firing Pin Indent	.0205	.0205	.020			2-21-91	DH
	J) Assemble Stock						2/25/91	KS
	K) Assemble Swivel Studs						2/26/91	KS
	L) Attach Front and Rear Sight Assemblies						2/26/91	KS
	M) Iron Sight Alignment						2/26/91	KS
	N) Detach Front & Rear Sights & place in numbered container						2/26/91	KS
	O) Attach Scope to Rifle						2/25/91	KS
	P) Detach & Attach Scope 20 Times						2/25/91	KS
640	Gallery Target & Test						2-26-91	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						2-26-91	NF
655	Final Inspection						3-1-91	DH
	A) Headspace						2/27/91	KS
	B) Trigger Pull	2.50	2.48	2.52	2.56	2.51	2/27/91	KS
	C) Function						3-1-91	DH
660	Pack						3-15-91	NF

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611786

DATE 2-21-91

TESTER DH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.39	2.49	2.42	2.50	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.49	2.47	2.55	2.48	
PULL #3	2.49	2.39	2.45	2.52	
PULL #4	2.50	2.37	2.32	2.56	
PULL #5	2.42	2.35	2.38	2.51	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.00	3.17		
PULL #2	3.07	3.13		
PULL #3	3.01	3.12		
PULL #4	3.04	3.09		
PULL #5	3.05	3.07		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	3.95		3.97
PULL #2	4.21	4.18		4.07
PULL #3	4.07	4.13		4.14
PULL #4	3.74	4.22		4.09
PULL #5	4.02	4.15		4.07
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06211786
27 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.0677791
1 TO	2	.182833
1 TO	3	.265062
1 TO	4	.207928
1 TO	5	.168434

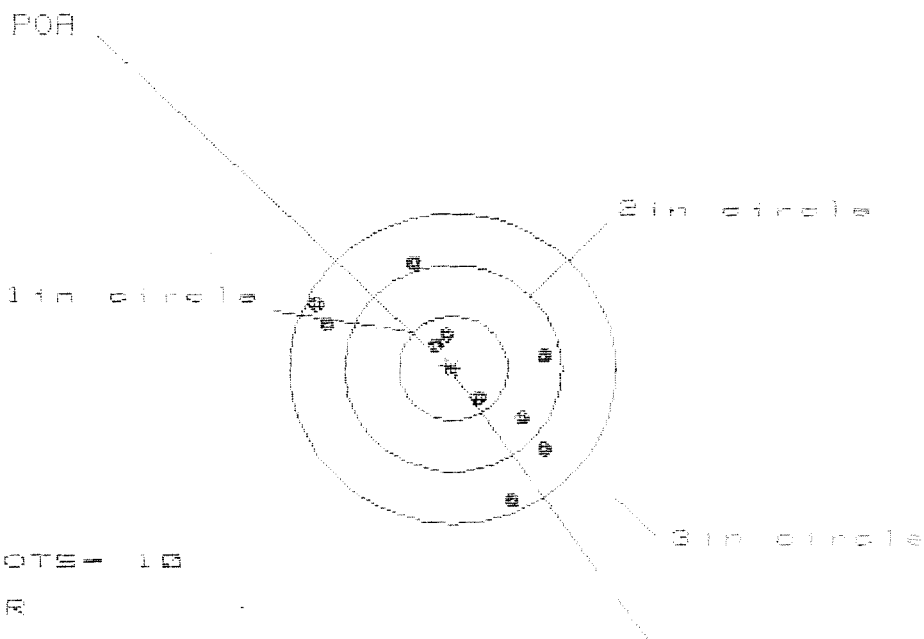
af <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .05
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0852
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0987879
THE AMR FOR THIS RIFLE IS: .877

27 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06511786

CENTERFIRE PATTERNS # 1



OF SHOTS - 10

IN CIR

1in = 3

2in = 5

3in = 10

HS = 2.084

VS = 2.224

CS = 2.624

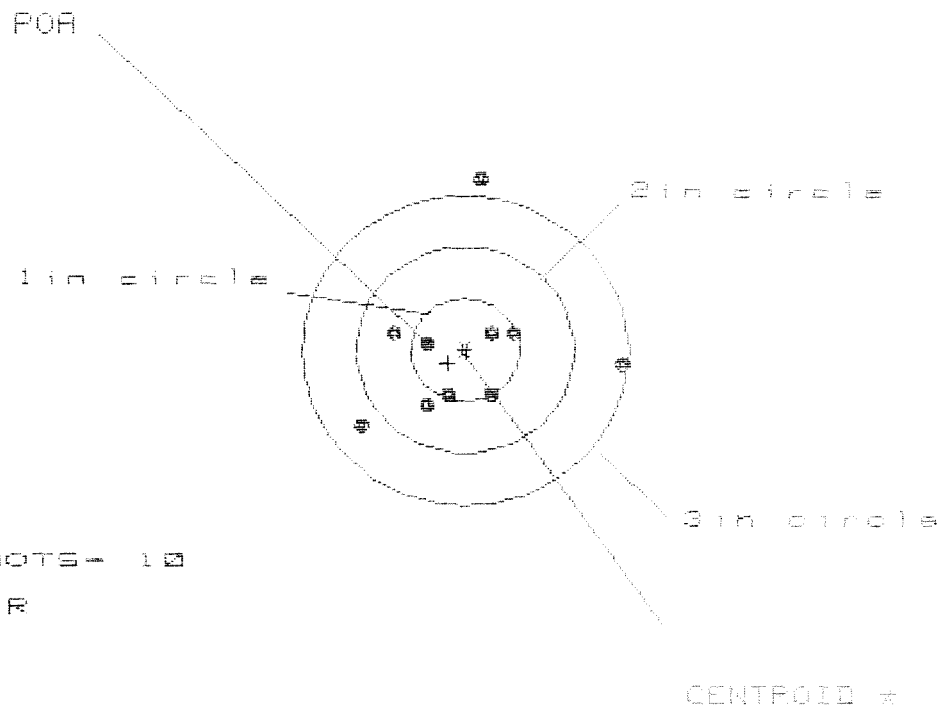
CENTROID #

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.839	.781	.754
MINIMUM X	:	-1.245	-1.347	-1.294
MAXIMUM Y	:	.984	1.058	.912
MINIMUM Y	:	-1.240	-1.166	-1.848
CENTROID X	:	.063	.201	.148
CENTROID Y	:	-.025	-.099	.047
POA TO CENTROID in.	:	.068	.224	.156
MIN RADIUS	:	.263	.187	.267
MEAN RADIUS	:	.875	.800	.735
MAX RADIUS	:	1.411	1.427	1.335
HORIZONTAL SPREAD	:	2.084	2.048	2.048
VERTICAL SPREAD	:	2.224	2.224	1.752
EXTREME SPREAD	:	2.624	2.418	2.311
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

27 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/08611766

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 4

2 in = 7

3 in = 9

HS= 2.356

VS= 2.377

GS= 2.619

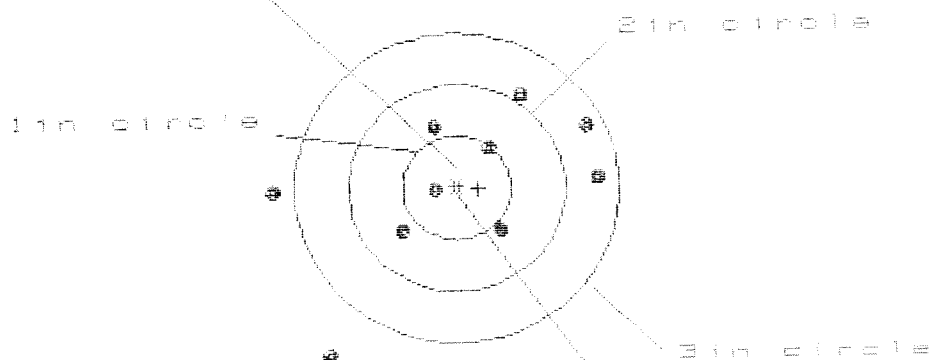
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.421	1.440	.638
MINIMUM X	:	-.935	-.916	-.736
MAXIMUM Y	:	1.638	.395	.404
MINIMUM Y	:	-.739	-.557	-.548
CENTROID X	:	.155	.136	-.044
CENTROID Y	:	.133	-.049	-.058
POA TO CENTROID in.	:	.204	.145	.073
MIN RADIUS	:	.277	.248	.198
MEAN RADIUS	:	.774	.657	.540
MAX RADIUS	:	1.646	1.442	.918
HORIZONTAL SPREAD	:	2.356	2.356	1.374
VERTICAL SPREAD	:	2.377	.952	.952
EXTREME SPREAD	:	2.619	2.440	1.672
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

22 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8811788

CENTERFIRE PATTERNS # 3

POA



OF SHOTS = 10

IN CIR

1in = 2

2in = 5

3in = 8

HS = 2.991

VS = 2.461

GS = 3.256

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.310	1.177	.951
MINIMUM X	-1.681	-1.814	-.965
MAXIMUM Y	.844	.665	.645
MINIMUM Y	-1.617	-.682	-.622
CENTROID X	-.200	-.667	.159
CENTROID Y	.008	.187	.207
POA TO CENTROID in.	.200	.199	.262
MIN RADIUS	.245	.218	.187
MEAN RADIUS	.992	.852	.721
MAX RADIUS	2.012	1.821	1.836
HORIZONTAL SPREAD	2.991	2.991	1.816
VERTICAL SPREAD	2.461	1.267	1.267
EXTREME SPREAD	3.256	2.992	1.958
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

27 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/CGB11786

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

+ OF SHOTS- 10

IN CIR

1 in = 3

2 in = 6

3 in = 8

HS= 2.406

VS= 2.955

GS= 3.584

CENTROID +

PATTERN #

:

4

SHOTS (BEST OF)

:

10

9

8

MAXIMUM X

:

1.011

1.065

.905

MINIMUM X

:

-1.395

-1.283

-.918

MAXIMUM Y

:

1.421

1.251

1.370

MINIMUM Y

:

-1.534

-1.855

-1.736

CENTROID X

:

.108

-.004

.156

CENTROID Y

:

.178

.348

.229

POA TO CENTROID in.

:

.208

.348

.277

MIN RADIUS

:

.051

.164

.043

MEAN RADIUS

:

.899

.813

.671

MAX RADIUS

:

1.837

1.598

1.371

HORIZONTAL SPREAD

:

2.406

2.348

1.823

VERTICAL SPREAD

:

2.955

2.106

2.106

EXTREME SPREAD

:

3.584

2.898

2.186

NUMBER IN ONE INCH CIRCLE =

3

NUMBER IN TWO INCH CIRCLE =

6

NUMBER IN THREE INCH CIRCLE =

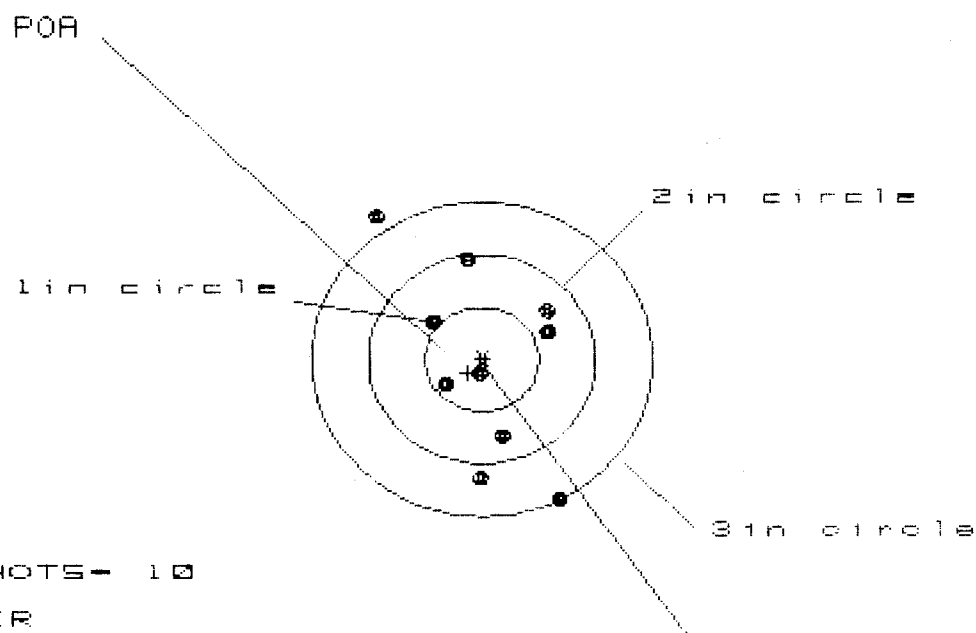
8

27 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/CGB11786

CENTERFIRE PATTERNS

5



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 6

3 in - 9

HS- 1.604

VS- 2.657

GS- 3.104

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.661	.556	.540
MINIMUM X	:	-.943	-.549	-.479
MAXIMUM Y	:	1.368	1.160	1.018
MINIMUM Y	:	-1.289	-1.137	-1.127
CENTROID X	:	.124	.229	.159
CENTROID Y	:	.132	-.020	.122
POA TO CENTROID in.	:	.181	.230	.201
MIN RADIUS	:	.180	.125	.177
MEAN RADIUS	:	.845	.742	.668
MAX RADIUS	:	1.662	1.266	1.132
HORIZONTAL SPREAD	:	1.604	1.105	1.019
VERTICAL SPREAD	:	2.657	2.297	2.145
EXTREME SPREAD	:	3.104	2.444	2.147
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611786

DATE _____

TESTER FW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.27	2.63	2.40		MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.31	2.55	2.51		
PULL #3	2.35	2.62	2.47		
PULL #4	2.32	2.62	2.44		
PULL #5	2.39	2.60	2.44		
TOTAL	11.64	13.02	12.26		
AVG.	2.33	2.60	2.45		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.25	3.22		
PULL #2	3.24	3.19		
PULL #3	3.20	3.18		
PULL #4	3.28	3.17		
PULL #5	3.25	3.22		
TOTAL	16.22	15.98		
AVG.	3.24	3.20		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.08	4.24		4.14
PULL #2	4.09	4.07		4.01
PULL #3	4.11	4.11		4.19
PULL #4	4.20	4.07		4.10
PULL #5	4.06	4.11		4.19
TOTAL	20.54	20.60		20.63
AVG.	4.11	4.12		4.13

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611786

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 and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	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			

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6	5 1/2	5 1/2			12/4	WB
	G) Safety Off Force	4	3 1/2	3 1/2			12/4	WB
	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							
	A) Time							
	B) Malfunctions							
	C) Pierced Primers							
	D) Optical Clarity of Scope							
645	Inspect for Live Ammo							
655	Final Inspection							
	A) Headspace							
	B) Trigger Pull	2.71	2.76	2.73	2.80	2.79	12/4	WB
	C) Function							
660	Pack							