

C6611627

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Smeal

Remington
DU PONT
REG. U.S. PAT. & TM. OFF.

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

MODEL 700TM H24

SERIAL NO.
C6611627

ORDER NO.
5716

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

20



CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6611627

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	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		1/29/91	KR
615	Rollmark Caliber		"	LS
617	Drill and Tap Sight Holes	2 2	91	FB
618	Polish Barrel RBB	2 2	91	WB
620	Apply Coatings (Barrel Action)		2-11-91	JA
	Apply Coating (Bolt)			
625	Final Assembly		2/12/91	KA
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/12/91	KA
	C) Inspect Ejector Hole for Chamfer		2/14/91	KA
	D) Oil Firing Pin Ass'y		2/14/91	KA
	E) Adjust Trigger Pull to Min Setting and Stake		2/14/91	KA

op. #	BARBER M24 0079811	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/4	4 1/4	4 1/4			2/16/91	WB
	G) Safety Off Force	2 1/4	2 1/4	2 1/4			2/16/91	WB
	H) Trigger Pull Test & Retainability						2/15/91	
	I) Firing Pin Indent	.0205	.0205	.0205			2/16/91	WB
	J) Assemble Stock						2/18/91	KL
	K) Assemble Swivel Studs						2-25-91	A
	L) Attach Front and Rear Sight Assemblies						2/18/91	KL
	M) Iron Sight Alignment						2/18/91	KL
	N) Detach Front & Rear Sights & place in numbered container						2/18/91	KL
	O) Attach Scope to Rifle						2/18/91	KL
	P) Detach & Attach Scope 20 Times						2/18/91	KL
640	Gallery Target & Test						2-19-91	DH
	A) Time						2-19-91	DH
	B) Malfunctions						2-19-91	DH
	C) Pierced Primers						2-19-91	DH
	D) Optical Clarity of Scope						2-19-91	DH
645	Inspect for Live Ammo						2-19-91	DH
655	Final Inspection						2-25-91	A
	A) Headspace						2-25-91	A
	B) Trigger Pull	2.41	2.45	2.41	2.41	2.48	2/21/91	KL
	C) Function						2-25-91	AC
660	Pack						3-15-91	W

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6611627

DATE 2/25/01

TESTER [Signature]

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.47	2.39	2.44	2.41	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.39	2.36	2.42	2.45	
PULL #3	2.45	2.46	2.47	2.41	
PULL #4	2.40	2.47	2.38	2.41	
PULL #5	2.34	2.42	2.40	2.48	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.30	3.33		
PULL #2	3.29	3.36		
PULL #3	3.19	3.34		
PULL #4	3.16	3.36		
PULL #5	3.18	3.39		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.44	4.39		4.34
PULL #2	4.51	4.37		4.43
PULL #3	4.40	4.36		4.41
PULL #4	4.35	4.37		4.41
PULL #5	4.37	4.35		4.38
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611627
19 Feb 1991

CENTROIDAL DISTANCES

Ø TO	1	.192627
1 TO	2	.308577
1 TO	3	.0993579
1 TO	4	.190394
1 TO	5	.149817

←----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0858
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1602
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .18173
THE AMR FOR THIS RIFLE IS: .9666

19 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611627

CENTERFIRE PATTERNS

1

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS - 10

IN CIR

1 in = 0

2 in = 5

3 in = 10

HS = 1.753

VS = 2.239

GS = 2.419

PATTERN #	1	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.946	.912	.988
MINIMUM X	-.887	-.841	-.765
MAXIMUM Y	1.208	1.167	1.018
MINIMUM Y	-1.031	-.897	-.751
CENTROID X	.177	.211	.135
CENTROID Y	-.076	-.210	-.356
POA TO CENTROID in.	.192	.298	.381
MIN RADIUS	.520	.474	.356
MEAN RADIUS	.970	.932	.858
MAX RADIUS	1.246	1.313	1.118
HORIZONTAL SPREAD	1.753	1.753	1.753
VERTICAL SPREAD	2.239	2.064	1.769
EXTREME SPREAD	2.419	2.303	1.937
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		10	

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FILE:/PATTERNING/CENTERFIRE_PATT/C8611627

CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 9

HS= 1.956

VS= 3.268

GS= 3.672

PATTERN #	:	2	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.939	.933	.854
MINIMUM X	:	-1.017	-.913	-.992
MAXIMUM Y	:	2.105	.752	.635
MINIMUM Y	:	-1.163	-.929	-1.031
CENTROID X	:	.039	-.065	.014
CENTROID Y	:	-.352	-.586	-.469
POA TO CENTROID in.	:	.354	.589	.470
MIN RADIUS	:	.143	.091	.200
MEAN RADIUS	:	.905	.692	.650
MAX RADIUS	:	2.305	1.153	1.095
HORIZONTAL SPREAD	:	1.956	1.846	1.846
VERTICAL SPREAD	:	3.268	1.681	1.666
EXTREME SPREAD	:	3.672	2.257	1.887
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

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FILE:/PATTERNING/CENTERFIRE_PATT/06611627

CENTERFIRE PATTERNS # 3

POA

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS= 10

IN CIR

1in = 2

2in = 5

3in = 10

HS= 2.439

VS= 1.687

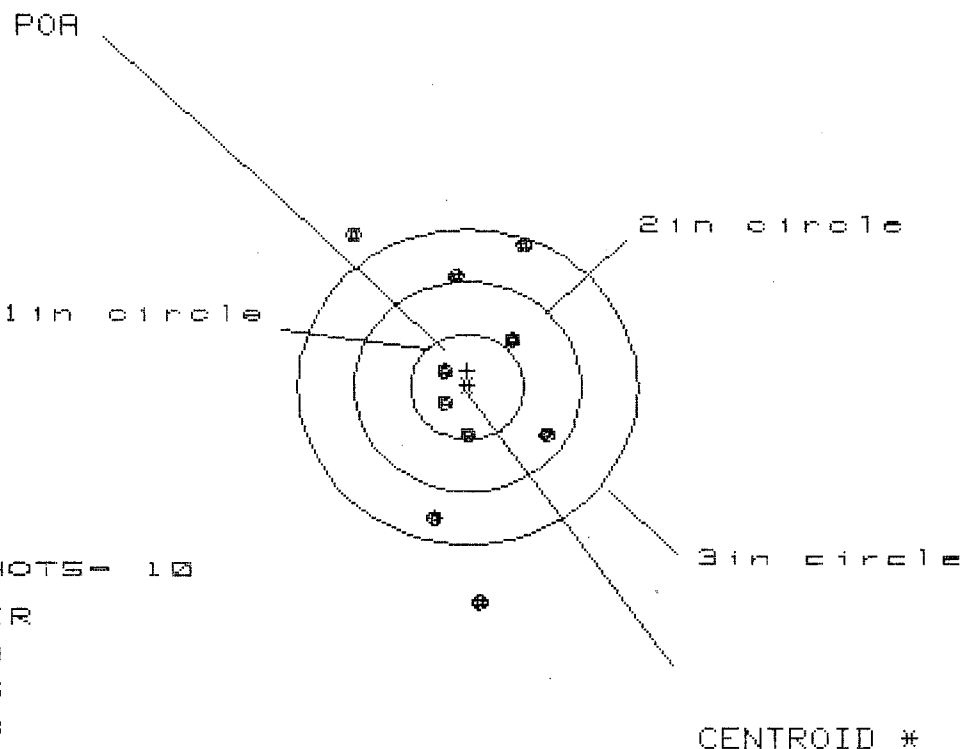
GS= 2.553

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.255	1.123	1.260
MINIMUM X	-1.184	-1.205	-1.068
MAXIMUM Y	1.023	.969	1.006
MINIMUM Y	-.664	-.718	-.681
CENTROID X	.101	.233	.096
CENTROID Y	-.012	.042	.005
POA TO CENTROID in.	.102	.237	.096
MIN RADIUS	.356	.236	.348
MEAN RADIUS	.895	.844	.798
MAX RADIUS	1.279	1.206	1.201
HORIZONTAL SPREAD	2.439	2.328	2.328
VERTICAL SPREAD	1.687	1.687	1.687
EXTREME SPREAD	2.553	2.337	2.337
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

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FILE:/PATTERNING/CENTERFIRE_PATT/C6611627

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1 in - 3

2 in - 5

3 in - 8

HS- 1.686

VS= 3.500

GS= 3.673

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.714	.729	.610
MINIMUM X	-.972	-.957	-.372
MAXIMUM Y	1.402	1.169	1.237
MINIMUM Y	-2.098	-1.487	-1.341
CENTROID X	.002	-.013	.106
CENTROID Y	-.151	.082	-.064
POA TO CENTROID in.	.151	.083	.124
MIN RADIUS	.222	.209	.295
MEAN RADIUS	.998	.871	.778
MAX RADIUS	2.103	1.510	1.392
HORIZONTAL SPREAD	1.686	1.686	.982
VERTICAL SPREAD	3.500	2.656	2.578
EXTREME SPREAD	3.673	2.748	2.702
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

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FILE:/PATTERNING/CENTERFIRE_PATT/C6611627

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in - 0

2 in - 3

3 in = 9

HS- 2.291

VS= 2.164

GS= 2.807

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.131	1.002	.970
MINIMUM X	:	-1.160	-1.220	-1.252
MAXIMUM Y	:	.768	.634	.443
MINIMUM Y	:	-1.396	-1.530	-.887
CENTROID X	:	.110	.239	.271
CENTROID Y	:	-.210	-.076	.115
POA TO CENTROID in.	:	.237	.251	.294
MIN RADIUS	:	.512	.369	.187
MEAN RADIUS	:	1.065	.961	.844
MAX RADIUS	:	1.675	1.552	1.275
HORIZONTAL SPREAD	:	2.291	2.222	2.222
VERTICAL SPREAD	:	2.164	2.164	1.330
EXTREME SPREAD	:	2.807	2.330	2.254
NUMBER IN ONE INCH CIRCLE	:	0	0	0

NUMBER IN TWO INCH CIRCLE = 3
NUMBER IN THREE INCH CIRCLE = 9
BARBER - M24 0079819