

Smith & Wesson®

C6649036

MODEL 700™ M24

Model **S&S**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



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

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

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

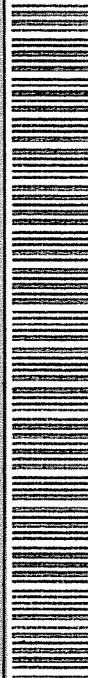
MODEL 700TM H24

SERIAL NO.
C6649036

ORDER NO.
5716

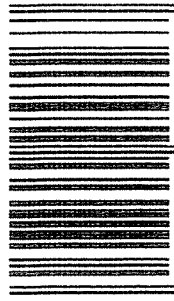
MADE IN ILION, N.Y., U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

20



5716 C6649036

LPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6649036

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	6 25	9 1	RW
600	Proof	6 25	9 1	RW
607	Check Headspace	6 25	9 1	RW
610	Dis-assemble Gun	6 25	9 1	RW
612	Magnaflux Barrel Action		JUL 1 1991	KR
	Magnaflux Bolt		JUL 1 1991	KR
615	Rollmark Caliber		JUL 1 1991	LG
617	Drill and Tap Sight Holes		JUL 1 1991	LB
618	Polish Barrel		JUL 2 1991	WB
620	Apply Coatings (Barrel Action)		8/27/91	LA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		8/27/91	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/27/91	RW
	C) Inspect Ejector Hole for Chamfer		8/27/91	RW
	D) Oil Firing Pin Ass'y		8/27/91	RW
	E) Adjust Trigger Pull to Min Setting and Stake		8/27/91	W

op.	BARBER M24 0030904	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			8/28/91	SH
	G) Safety Off Force	3	3	3			8/28/91	SH
	H) Trigger Pull Test & Retainability						8/27/91	SH
	I) Firing Pin Indent	10235	10225	10225			8/28/91	SH
	J) Assemble Stock						8/28/91	RW
	K) Assemble Swivel Studs						8/29/91	PH
	L) Attach Front and Rear Sight Assemblies						8/28/91	RW
	M) Iron Sight Alignment						8/28/91	RW
	N) Detach Front & Rear Sights & place in numbered container						8/28/91	RW
	O) Attach Scope to Rifle						8/28/91	RW
	P) Detach & Attach Scope 20 Times						8/28/91	RW
640	Gallery Target & Test						8/28/91	KJ
	A) Time							KJ
	B) Malfunctions							KJ
	C) Pierced Primers							KJ
	D) Optical Clarity of Scope							KJ
645	Inspect for Live Ammo						8/28/91	KJ
655	Final Inspection						8/28/91	PH
	A) Headspace						8/29/91	PH
	B) Trigger Pull	2.20	2.18	2.14	2.30	2.22	8/29/91	SH
	C) Function						8/31/91	PH
660	Pack						9/1/91	PH

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C-6649036DATE 8/27/91TESTER JU

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.34	2.52	2.50	2.20	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.29	2.53	2.48	2.18	
PULL #3	2.31	2.50	2.52	2.14	
PULL #4	2.46	2.51	2.50	2.30	
PULL #5	2.44	2.49	2.55	2.22	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.48	3.44		
PULL #2	3.45	3.45		
PULL #3	3.37	3.47		
PULL #4	3.59	3.47		
PULL #5	3.45	3.43		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.34	4.48		4.30
PULL #2	4.39	4.42		4.45
PULL #3	4.55	4.50		4.43
PULL #4	4.49	4.40		4.43
PULL #5	4.42	4.49		4.31
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6649036
29 Aug 1991

CENTROIDAL DISTANCES

0 TO	1	.103769
1 TO	2	.267032
1 TO	3	.104307
1 TO	4	.0773886
1 TO	5	.152013

2.4 <----POA

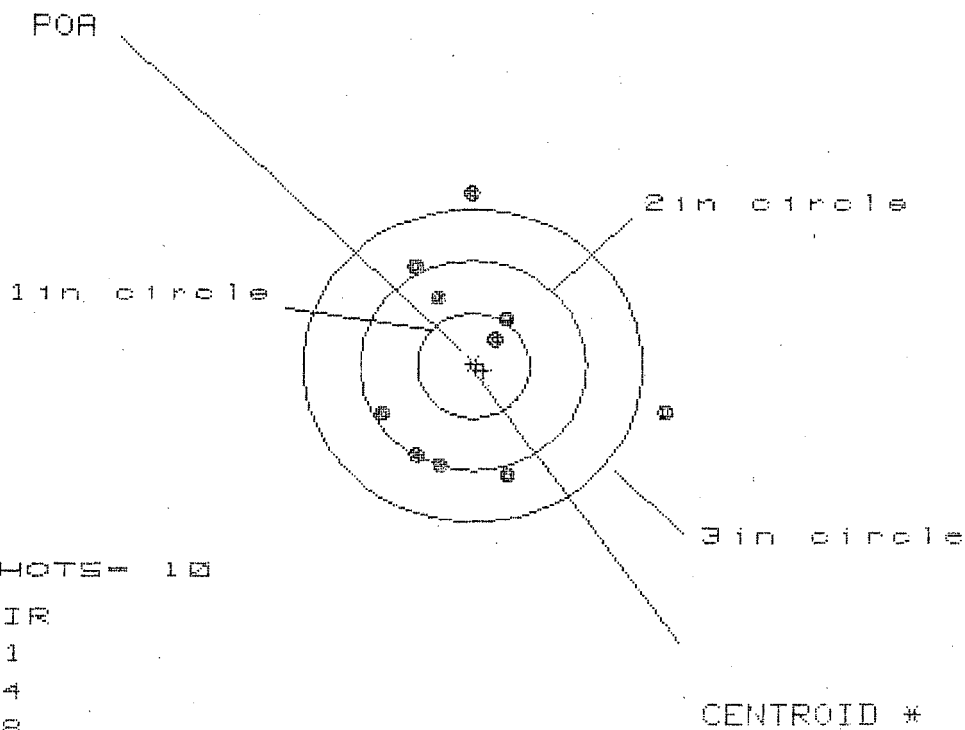
AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1146
AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0164
RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .115769

FOR THIS RIFLE IS: .0888

29 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8549036

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1in = 1

2in = 4

3in = 5

HS = 2.485

VS = 2.738

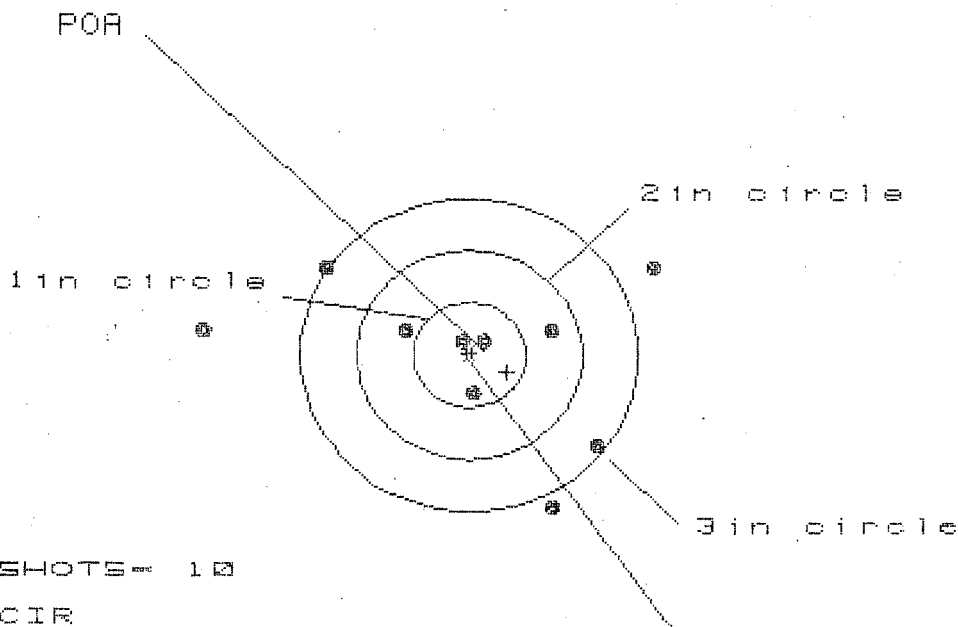
GS = 2.762

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.667	.516	.536
MINIMUM X	-.818	-.633	-.613
MAXIMUM Y	1.659	1.606	1.079
MINIMUM Y	-1.079	-1.132	-.931
CENTROID X	-.092	-.277	-.297
CENTROID Y	.048	.101	-.100
POA TO CENTROID in.	.104	.295	.313
MIN RADIUS	.331	.454	.581
MEAN RADIUS	1.017	.925	.834
MAX RADIUS	1.734	1.613	1.129
HORIZONTAL SPREAD	2.485	1.149	1.149
VERTICAL SPREAD	2.738	2.738	2.010
EXTREME SPREAD	2.762	2.762	2.190
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	5		

29 Aug 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06649036

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 5

3 in = 6

HS = 4.047

VS = 2.374

GS = 4.092

PATTERN #

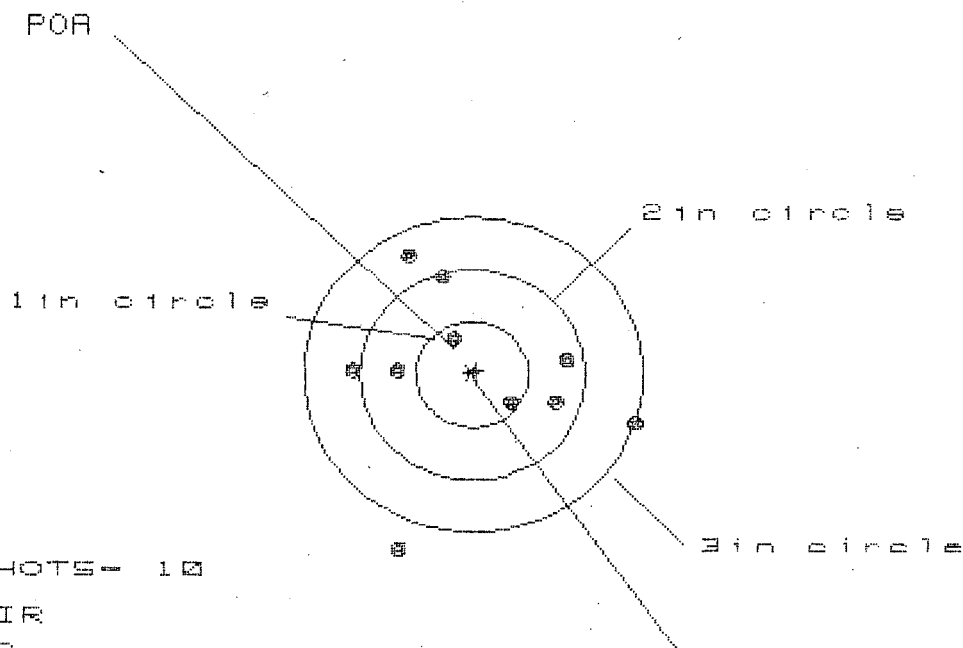
2

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.644	1.377	1.043
MINIMUM X	-2.403	-1.572	-1.400
MAXIMUM Y	.868	.897	.971
MINIMUM Y	-1.506	-1.477	-1.365
CENTROID X	-.333	-.066	-.238
CENTROID Y	.163	.134	.022
POA TO CENTROID in.	.370	.149	.239
MIN RADIUS	.157	.191	.231
MEAN RADIUS	1.101	.955	.849
MAX RADIUS	2.418	1.792	1.704
HORIZONTAL SPREAD	4.047	2.949	2.443
VERTICAL SPREAD	2.374	2.374	2.336
EXTREME SPREAD	4.092	3.071	3.071
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		5	
NUMBER IN THREE INCH CIRCLE =		6	

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FILE:/PATTERNING/CENTERFIRE_PATT/C6649036

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 2

2in = 6

3in = 9

HS= 2.473

VS= 2.887

GS= 2.889

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.422	1.345	.956
MINIMUM X	-1.051	-1.128	-.960
MAXIMUM Y	1.179	.989	.907
MINIMUM Y	-1.708	-.659	-.554
CENTROID X	-.036	.041	-.127
CENTROID Y	-.040	.150	.232
POA TO CENTROID in.	.054	.155	.264
MIN RADIUS	.345	.243	.061
MEAN RADIUS	.981	.864	.755
MAX RADIUS	1.843	1.497	1.032
HORIZONTAL SPREAD	2.473	2.473	1.916
VERTICAL SPREAD	2.887	1.648	1.461
EXTREME SPREAD	2.889	2.596	1.957
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

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CENTERFIRE PATTERNS # 4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 7

3 in = 8

HS = 1.602

VS = 2.280

GS = 2.443

CENTROID *

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.683	.580	.522
MINIMUM X	-.919	-.469	-.450
MAXIMUM Y	1.226	1.128	1.013
MINIMUM Y	-1.054	-.918	-.597
CENTROID X	-.022	.081	.139
CENTROID Y	.015	-.121	-.006
POA TO CENTROID in.	.026	.145	.139
MIN RADIUS	.155	.221	.108
MEAN RADIUS	.741	.615	.558
MAX RADIUS	1.532	1.163	1.069
HORIZONTAL SPREAD	1.602	1.049	.972
VERTICAL SPREAD	2.280	2.046	1.610
EXTREME SPREAD	2.443	2.054	1.827
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

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CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS = 10

IN CIR

1in = 4

2in = 8

3in = 10

HS = 1.915

VS = 1.612

GS = 2.094

PATTERN #	5	5	5
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.730	.599	.505
MINIMUM X	-1.185	-.747	-.408
MAXIMUM Y	.782	.746	.653
MINIMUM Y	-.830	-.743	-.659
CENTROID X	-.090	.041	.135
CENTROID Y	-.104	-.191	-.098
POA TO CENTROID in.	.137	.195	.166
MIN RADIUS	.023	.060	.103
MEAN RADIUS	.604	.484	.410
MAX RADIUS	1.419	1.054	.775
HORIZONTAL SPREAD	1.915	1.346	.913
VERTICAL SPREAD	1.612	1.489	1.312
EXTREME SPREAD	2.094	1.813	1.443
NUMBER IN ONE INCH CIRCLE =		4	
NUMBER IN TWO INCH CIRCLE =		8	
NUMBER IN THREE INCH CIRCLE =		10	