DATES	AND REASONS FOR REVISIONS
12/3/	62 - New write-up for this model - NVM/ab
1/24/6	63 - Item IV - A Min rds, for function and
	Group Size was 5 shots - WAB/N/M/cb
DESCR	IPTIVE INFORMATION
I.	Guns Proofed, Tested, Targeted
	 All guns 100% - Proofed, tested and targeted concurrently. Record results on forms provided - (See Foreman for instructions) See Malfunction Index for proper coding and recording of malfunctions.
II.	Inspection Chiectives
·	1. Proof: To check the ability of each gun to satisfactorily sustain the pressures generated by the proof load without ruptures or breakage.
	2. Functional: To check the ability of each gun to satisfactorily load, feed, close, look, fire, unlock, open, extract and eject with standard ammunition.
	3. Accuracy: To check the ability of each to satisfactorily meet specifications for group size. 4. Visual: To check gun for satisfactory appearance of the Rear and Front Sights and general presentability.
ııı.	Shooting Method and Range A. Standard Method
	 Use accuracy device provided for this model. Use centerfire targeting range - 100 yds (300 ft.) a. Use grid type target paper (1" square) b. Use Line-O-Sighter and spot scope as outlined in Item VI, Description of Test.
	p. one prince of shor spoke as outlined In Item AI' hendlibrion of Leaf.
IV.	Ammunition Specifications and rounds required. A. Table
	Type of Cartridge & Minimum Rds, Required
	Gun Proof Function Point Group
	Caliber Bullet Weight Capacity Test Test of Impact Size
	,221 50 Gr. SP Single 1 Proof 3 atd. None 3 atd. Shot Cartridge
	Note: The no. of required rds. listed above for the functional & accuracy characteristics specified are the Min. requirements. Any "seating" rds. which may be need are in addition to the numbers listed above.
PART N	NAME Callery-Proof-Test-Target COOLANT SET UP MODEL NO. IP-100 OPER NO.
TYPE	Procedure and Specifications
	MACH. HRS DEPT. No. PAGE 1 OF 7

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ATES A	` ND R	EASOI	es for REVISIONS ,	
12/14/	IND REASONS FOR REVISIONS (67 - Updated and retyped - WAB/COP/eb Specifications: A. Proof 1. Breakage - Action or Barrel must not be broken or split by firing pressures of proof cartridge. 2. Number of Rounds - See Table, Item IV-A. B. Function: 1. Feeding - With single cartridge resting on platform, move Bolt forward to feed shell and close. a. Must feed eingle (1) shell into chamber, each operating stroke of Bolt. b. Shells must not stom chamber. 2. Closing - (Forward motion of Bolt) - with chamber empty. a. Bolt must close with normal pressure (empty chamber). - with shell in chamber. b. Bolt must close with normal pressure (shell in chamber). 3. Locking - (clockwise camming motion of Bolt at closed position). - with Bolt closed on empty chamber or with shell in chamber, as in Item 2., above. a. Bolt must lock up with normal pressure. b. Extrector must cam over shell rim without excessive pressure or bind: 4. Firing - After each full operating cycle of Bolt - Safe in "off" position. a. Action must fire when Trigger is pulled. 5. Unlocking - With Bolt in closed and locked position as in Items 2a, 2b, 3a & 3b, raise Bolt Handle, counterclockwise to unlock. a. Hust unlock with normal pressure. 6. Cpening - After unlocking - movement of Bolt to rear position.			
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DESCRIP	TIVE	INFOR	MATION	
v	e	-1 64		
, V .			·	
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	_	.		
	B.			
٠	•	1.	a. Must feed single (1) shell into chamber, each operating stroke of Rolt.	
		2.	Closing - (Forward motion of Bolt)	·
			• •	
,				
		2		•
		٦.	•	•
•			b. Extractor must cam over shell rim without excessive pressure or bind.	
		4.	Firing - After each full operating cycle of Bolt - Safe in "off" position	
•		5.	VOWIDOLOLOCKWIND CO WILDCR,	•
		6,.	Opening - After unlocking - movement of Bolt to rear position. a. Must travel full stroke to rear position with normal pressure. b. Bolt must not pull out of Receiver.	
ART NA	ME	Gall	ory-Proof-Test-Target Coolant SET UP MODEL No. XP-100 OPER No.	<u> </u>
YPE		Proc	adure and Specifications MACH. HRS. DEPT. No PAGE 2 OF	_ 7

/14/6	7	- Updated and retyped - WAB/COP/eb ,
CRIPTI	IVE	INFORMATION
	Spe	ecifications:
	В.	Function - cont'd.
•		 7. Extraction - With fired case of live round in chamber, unlock and open Bolt to rear position. a. Case or shell must be completely removed from chamber. b. Case or shell must be retained in head of Bolt by Extractor - not fall out - until ejected.
		8. <u>Ejection</u> - With fired case or live round fully extracted from chamber. a. Case or shell must be completely ejected from gun by Ejector.
		9. <u>Case Inspection</u> - The first (1st) fired case (after proof round) must be visually inspected for indent and condition of fired case (chamber defects).
		NOTE A: Functional items are applicable to all standard rounds fired.
(C.	Point of Impact.
		1. Definition - The mean average position of all shots fired from point of sim.
		NOTE A: Point of Impact not checked nor Sights adjusted unless specifically requested. NOTE B: Guns are to be tested with Sights in normal position as described in Item V-E.
1	D.	Group Size.
		1. Definition: Maximum extreme spread from inside edges of holes farthest apart.
		2. No. of Rds.: See Table, Item IV-A.
		3. Max. extreme spread for number of rounds indicated: Caliber 3 Shots 4 Shots 5 Shots 221 Fireball 1.75" 2.25" 3.0"
. 1	E.	Open Sights.
		- Normal Appearance.
		 Integral Front Sight Ramp and Blade - (Fixed Position). Screwed tight to Barrel rib at front and rear. Central on rib and straight with line of sight - not bent, twisted, tipped or deformed.
NAMI	E	Gallery-Proof-Test-Target COOLANT SET UP MODEL No. XP-100 OPER NO.
		Procedure and Specifications MACH. HRS DEPT. No. PAGE 3 OF 2

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DATES AND REASONS FOR REVISIONS
12/3/62 - New write-up for this model - NWM/eb
DESCRIPTIVE INFORMATION
V. Specifications
E. Open Sights (Cont'd.)
2. Rear Sight Ramp, Leaf and Eyepiece - sliding adjustment for windage and elevation.
2. Rear Sight Ramp, Leaf and Eyepiece - sliding adjustment for windage and elevation. a. Ramp - screwed tight at top rear of Barrel wib - reasonably contral on rib
b Leaf - reasonably central on Ramp and locked in position - set screw tight.
c. Eyupiece - top surface approximately flush with top surface of Leaf - set screw tight.
d. Rear Sight Assembly - must be level crosswise with Front Sight and with line of sight as viewed
from rear and straight lengthwise - not tipped, twisted or bent,
- adjustments - if necessary for normal appearance.
1. Windage.
a. Rear Sight Leaf may be adjusted to right or left within specifications above.
2. Elevation
a. Rear Sight Eyepiece may be adjusted to raise or lower within specifications above.
VI. Description of Test
A. Safety Inspection
- each Action as received - Bolt in open position.
1. Pick up Action and visually inspect Bolt for:
a. Bolt Head pull test mark - Prick punch mark (.) must be present on right Bolt lug.
2. Depress Bolt Stop at left rear of Action, remove Bolt and visually inspect Barrel for:
a. Chatruction in bore - view from Breech end - must be clear.
b. Magnaflux wark - (A) - must be present on right rear side.
3. Reassemble Bolt to Action and remove identification tag and set aside.
B. Sight Inspection
n. Stene indiagram.
4. Inspect Front and Rear Sights for:
a. Normal Sight alignment and appearance - as described in Item V - E.
b. Make eight adjustments, if necessary.
C. <u>Proof Test</u> (One Shot)
- With dovice in starting position; door raised to open position, fixture in rearrand position.
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PART NAME Gallory-Proof-Test-Target coolant SET UP MODEL NO. XP-100 OPER. NO. TYPE Procedure and Specifications
TYPE Procedure and Specifications MACH. HRS DEPT. No. PAGE 4 OF 7
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	AND REASONS FOR REVISIONS		<u> </u>
12/3/6	62 - New write-up for this model - NWM/eb		
ESCRIF	PTIVE INFORMATION		
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٧.	Specifications C. Proof Test - Cont'd.	•	
	5. Place Action in fixture - Safety in "off		
	6: Depress dual buttons on consols to clamp 7. Place proof cartridge on loading platfor		·
	7. Place proof cartridge on loading platfor 8. Close Bolt to feed shell into chamber an		
	9. Depress dual buttons on console to move		nort.
•	10. Dopress dual buttons on console to close		
	11. Depress dual buttons on console to fire		
	a. Action must fire.		
	b. Action must not be damaged by proof	load.	•
	Note: When Action fires, device automaticall	y cycles to starting position.	
	- After firing proof load - device in startin	g position.	•
	12. Manually unlock and open Bolt to rearwar		roof case.
	a. Proof case should extract and eject		•
	- If proof case extracts and ejects satisfact		tem D-18.
	- If proof case jams in head of Bolt proceed		•
	13. Depress dual buttons to release fixture		
	- Bolt must be in open position before releas 14. Remove Action from fixture, depress Bolt	ing clamp.	
	15. Remove fired proof case from Bolt.	Prob and Lamone Bott Arty 11Led CARE 11	rom action.
	a. Extractor must not be damaged or jam	med under Bolt rim to be improvable.	
	16. Reassemble Bolt to Action and replace Ac	tion in fixture - Bolt in open position.	
٠.	17. Depress dual buttons on console to clamp	and proceed as in Item D-18.	·
		•	
	D. Test-Target		
	- After proof test, Action located and clampe 18. Place standard cartridge on loading plat	i in fixture, device in starting position	on, each shot.
	19. Close Bolt to feed shell into chamber an		
	20. Dapress dual buttons on console to move	fixture to forward position - muzzle in	port.
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DATES	AND REASONS FOR REVISIONS
12/3/6	62 - New write-up for this model - NVM/eb
1/24/	63 - Item V-D, 28, 29, 30 deleted refer to
	5 shot group in accord with change in
	apeca, for 3 & 4 abot groups - WAB/NWM/ab
DESCRI	PTIVE INFORMATION
VI.	Description of Test
'-'	D. Test-Target - Cont'd.
.	p. 1050-1at kee - cons a.
	21. Depress dual buttons on console to lower Line-O-Sighter onto Front and Rear Sights on Action.
Í	a. Move Line-O-Sighter side to side manually, if necessary, to insure proper seating on Sights.
l	
i .	22. Viewing target through Line-O-Sighter, adjust device to point gun at target paper using
l	a. Elevation adjustment lever on left side of device,, if necessary.
ł	b. Windage adjustments lever on right side of device, if necessary.
'	23. Depress dual buttons on console to raise Lino-O-Sighter to upward retracted position.
١.	24. Depress dual buttons on console to close dovice door.
ł	25. Depress dual buttons on console to fire Action (and complts shooting cycle to starting position).
i ·	26. Repeat Items 18, 19, 20 and 24, 25 for each shot required.
Ï	27. Check each shot with spotting scope - for gun "seating in" and position of shots on paper.
1	a. Readjust device if shots off paper or group too close to edge - as described in Items 20,21,22,23
	28. If first two (2) shots are satisfactory for position on paper and within group size specifications.
į	a. Fire additional shots to complete tivo (5) shot group.
]	
	29. If first two (2) shots are not satisfactory for position on paper or show excessive spread, ignore and
Ì	a. Fire complete Aire=(5)=shot-group.
i	30. Check Group Size
ł	- First five=(5)=chot group as in Items 28 or 29.
	a. Spread of shot pattern should be within specifications as in Item V - D - 3.
ŀ	b. If group size exceeds specifications, ignore and fire second five (5) shot group.
ł	- Second five (5) shot group.
}	c. Spread of shot pattern must be within specifications as in Item V - D - 3.
]	31. Check function of Action - all standard rounds fired.
1	a. Must be within specifications as in Items V - B - 1 through 9.
	- On completion of Test-Target - device in starting position.
	32. Unlock Bolt and move rearward to open position.
Ì	. a. Bolt must be in open position before releasing clamp.
	33. Depress dual buttons on console to release fixture clamp.
i	34. Remove Action from fixture.
	35. Inspect Rear Sight, Front Sight, Barrel and clamping points on Receiver.
	a. Must be free of bad mars, scratches, jums and rub marks at points in contact with shooting device.
PART N	AME GETTOP MODEL NO XP-100 OPER NO OPE
TYPE	Procedure and Specifications MACH. HRS DEPT. No. PAGE 6 OF 7
	MACHINE MACHINE

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	ND REASONS FOR REVISIONS
2/3/6	- New write-up for this model - NWM/eb
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SCRIF	TIVE INFORMATION
ı.	Description of Test Cont'd.
	36. Stamp each acceptable Action with
,	a. Proof mark on Barrel - (REP) left rear approximately in line or slightly above gas hole in Receiver. b. Test mark on Barrel - (Ex*) shooters character stamp just forward of proof stamp. c. Proof mark on Bolt - (*) Prick punch mark on bottom of Bolt Handle. 37. Replace identification tag on Action.
	38. Record function and group size information on report sheets and gun slips.
	a. This must be done after testing each gun - not from memory on completion of load.
TI.	Interpretation of Proof-Test-Target
,	A. Paes Gun
	1. Within specifications for:
	a. Visual items, and
	b. Proof Test, and c. Functional requirements and
	d. Group size for specified number of shots - first group or second group
	B. Reject Cun
	1. Not within specifications for:
	a. Any one (1) or more of the items listed under A-1 above.
III.	Safety after test A. Open Bolt
	1. Bolt must be in open position before removing from device.
	B. Inspect Action for live ammunition.
	1. Chamber must be empty.
oteı	Perform A & B on each individual gun immediately after shooting test.
	Repeat B for all guns in load on completion of test
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	MACHINE DEPT. No. PAGE / OF 1