Issued. \$41445.... Revised..... Revised.....

## PILOT LINE FUNCTIONAL TEST for - 722 CENTER FIRE RIFLES

Object: To test guns produced under manufacturing conditions to determine if they function satisfactorily.

The test is designed to bridge the gap between tests performed on model guis which consisted of 1000 to 4500 rounds per caliber and the regular production test which will consist of approximately 8 rounds per gun.

Eight (8) guns will be selected at random from 50 pilot line guns of each caliber. The following calibers will be used: .257 Rem. Roberts, .270 Winchester, .300 Savage, .30-06 and .300 H&H Magnum. These guns will be fired in accordance with the Assumition Schedule (see attached sheet). After this firing, one average gun in the .270 Winchester and one in the .300 H&H Magnum calibers will be selected for a 3000 and 6000 round endurance test, respectively. The endurance guns will follow the schedule set up in the Endurance Gun Routing Ticket.

- 1. Take Down Inspection Test #11.
  2. Product Inspection Test #44.
  3. Clean barrel and chamber.

- 4. Head Space Test #3.
- 5. Safety Operation Test #31.
- 6. Jar Off Test #27.
- 7. Function gum with one magazineful of dummy ammunition.
- 8. Proof test 1 round, firing 5 standard rounds before and 5 after firing proof round.
- 9. Head Space Test #3.

- 10. Standard Live Fire Test #12 (see Ammonition Schedule on attached sheet). Note additional lubrication will not be applied to the guns for the first 1000 rounds but will be fired as received from the plant.
- 11. Select one average gum in .270 Winchester and .300 H&H Magnum caliber for the endurance test - (follow Endurance Gum Routing Ticket).
- 12. Take Down Inspection Test #11.
- 13. Gum Cleaning Test #40 Type III.
- 14. Head Space Test #3.
- 15. Interchangeability Test #7. Note: Use 7 guns of a caliber, firing 5 rounds in each gum. Head space before firing. d. ...
- 16. Clean barrel and chamber using Type III lubrication.

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## PILOT LINE ENDURANCE TEST for

## .270 WINCHESTER AND .300 H&H MAGNUM CALIBERS

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	,	Rounda
1.	Take Down Inspection Test #11.	
2.	Product Inspection Test #44.	
3.	Clean barrel and chamber.	
	Head Space Test #3.	
5.	Safety Operation Test #31.	
6.	Jar Off Test #27.	
7.	Function gun wick. One Ragazineful of dumy ammuition.	
8.	Proof fest - 1 round, firing 5 standard rounds before and 5 after	
	firing proof round.	1 - 11
9.	Head Space lest #3.	
	(Tests 1 thru 9 above already performed under regular routing ticket).	
9_T.	Standard Live Fine Peri #19 _ 220 rounds.	11 - 243
10.		
11.	Air gauge to determine chamber and bore dimensions.	
12.	Inspect bore with borescope and record any noticeable variation	
	in rifling.	
13.	Safety Mechanism Shock Test.	
14.	Trigger Pull Test #6.	
15.	Firing Pin Protrusion and Indentation Test #8.	
16.	Accuracy Test #4.	240 - 293
17.	Live Fire Test #12 - 707 rounds	293 - 1000
18.	Take Down Inspection/Test #11.	
19.	Clean barrel and chamber with metal fouling solution.	
20.		
21.	Head Space Test #3 - record.	
22.	Use air gauge to determine chamber and bore dimensions - record.	
23.		
. ~	inspect bore with borsscope and record observations.	
24.		
24.	Trigger Pull Test #6 - record.	
24.	Trigger Pull Test #6 - record. Firing Pin Indentation and Protrusion Test #8.	
24. 25.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and	
24. 25. 26.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.	1000 - 1005
24. 25. 26.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.	1000 - 1005
24. 25. 26. 27. 28.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.	1000 - 1005
24. 25. 26. 27. 28.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as	1000 - 1005
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24. 25. 26. 27. 28. 29.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.	1000 - 1005
27. 25. 26. 27. 28. 29.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.	
24. 25. 26. 27. 28. 29. 30. 31.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.	
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24. 25. 26. 27. 28. 29. 30. 31. 32.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and  Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and  Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.  Clean barrel and chamber with metal fouling solution.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.  Clean barrel and chamber with metal fouling solution.  Perform Gun Cleaning Test #40 - Type III.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.  Clean barrel and chamber with metal fouling solution.  Perform Gun Cleaning Test #40 - Type III.  Head Space Test #3 - record.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Amminition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.  Clean barrel and chamber with metal fouling solution.  Perform Gun Cleaning Test #40 - Type III.  Head Space Test #3 - record.  Use air gauge to determine chamber and bore dimensions - record.	1005 - 1016
24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Trigger Pull Test #6 - record.  Firing Pin Indentation and Protrusion Test #8.  Adjust Front Guard Screw to 50#, Rear Guard Screw to 40#, and Center Guard Screw to 20#.  Bolt Opening Test #10 - 5 rounds.  Safety Mechanism Function Test #22.  Fire 1 proof and 10 standard rounds in an oiled case test as prescribed in Gun Test #19 - firing 5 standard rounds before and 5 after test.  Clean chamber, face of bolt.  Measure head space - Test #3.  Perform Defective Ammunition Test #20.  Fire 984 standard rounds as prescribed under Live Fire Test #12.  Take Down Inspection Test #11.  Clean barrel and chamber with metal fouling solution.  Perform Gun Cleaning Test #40 - Type III.  Head Space Test #3 - record.  Use air gauge to determine chamber and bore dimensions - record.  Inspect bore with borescope and record observations.	1005 - 1016
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