

AMERICAN PISTOLSMITHS GUILD
RUGER REVOLVER
INSPECTION GUIDELINES AND PROCEDURE

Unload revolver and remove all ammunition from the inspection area.

I. EXTERNAL CHECKS

A. Check trigger guard for looseness.

B. Open and close cylinder six times and check for:

1. Hard opening and closing.
2. Cylinder latch engages cylinder slot.
3. Cylinder release button is too hard or sticks.
4. Crane loose in frame.
5. Cylinder hits frame.

C. Check cylinder release button for:

1. Free movement.
2. Recovery.
3. Flush with Ratchet seat surface.

D. Check for hammer hit on back of trigger and pawl.

E. Open cylinder:

1. Check ratchets for burrs.
2. Push up on ejector rod and check for ejector pins.
3. Inspect charge holes for bulges, etc.
4. Cylinder latch slots for peening.
5. Check for loose ejector rod runout (except GP 100 and Redhawk).
6. Check firing pin protrusion (factory specs).
7. Check pawl protrusion.

F. Close cylinder:

1. Check double action timing.
 - a. With and without dummies.
 - b. Pull through rapidly and check for throwby.
 - c. Right and left double action carryup
2. Check single action timing.
3. Pawl sings of ratchets.
4. Cylinder must not open when hammer is cocked.

G. Check for endshake:

1. Cylinder.

2. Crane.

H. Check headspace and barrel to cylinder gap (to factory specs). Rear of barrel face must be square with cylinder.

I. Check forcing cone with plug gauge for proper depth. Forcing cone must not be eroded or cracked.

J. Check barrel alignment and ranging with gauges (all six charge holes).

K. Check barrel crown for burrs and square.

L. Open cylinder and check cylinder latch for proper function (four positions).

M. Check for two winks:

1. Cock hammer (overall).
2. Hammer at rest (trigger pretravel).

N. Static weight test:

1. Double action (Mainspring weight).
2. Single action (Cylinder open).

O. Check latch for proper engagement with ejector rod (except GP 100 and Redhawk).

P. Check trigger pull:

1. Double action with clean break (no hammer shift on stud).

2. Single action (no creep).

Q. Check ejection of shells. Grips should not interfere.

R. Check hammer for pushoff.

II. INTERNAL CHECKS

A. Remove grips.

B. Remove hammer strut assembly and mainspring.

1. Mainspring

a. Factory

b. Closed ends.

2. Strut

a. Burrs.

b. Damage.

c. Alterations.

C. Remove hammer pivot assembly.

D. Remove hammer assembly:

1. Check single action cocking notch For:

a. Damage

b. Improper alteration.

c. Engagement to factory specs.

2. Check hammer dog for:

a. Proper relief.

b. Free movement and recovery.

3. Check transfer bar recess (Factory specs.).

E. Remove trigger guard assembly.

F. Remove transfer bar and check for:

1. Burrs.

2. Damage and fractures.

G. Remove pawl and spring plunger and check for:

1. Burrs.

2. Damage and fractures.

H. Remove trigger and check for:

1. Tail and nose:

a. Damage.

b. Improper alteration.

2. Factory spring (to factory specs.).

I. Remove cylinder latch and check:

1. Bevel for improper angle.

2. Recovery surface for burrs.

3. Ball of latch should not be altered.

J. Check hammer pivot assembly for:

1. Damage.

2. Excessive wear.

K. Check front latch for:

1. Free movement.

2. Burrs.

Reassemble revolver in reverse order and check for function in both single and double action mode. Revolver should be test fired with factory ammunition to ensure proper function. When test firing, always wear ear and eye protection.

III. APPEARANCE

A. Bluing:

1. Polishing

a. No washed out holes or lettering.

b. No edge or corner distortions.

c. No wheel burns.

d. No scratches.

e. No screw slot damage.

2. Masking of matted areas should be clean and sharp.

3. Bead blasting should be even. Check for evidence of over blasting in barrel.

B. Sights, ribs, and scope bases:

1. Firmly attached.

2. Square to frame.

IV. PPC BARREL INSTALLATION:

A. Underlug tight and square to frame. Underlug radius should match O. D. of barrel.

B. Diameter of barrel should be consistent over its entire length.

C. Flats should be consistent in width over the entire length and on both sides.

D. Finish comparable to frame.

E. Length of six inches overall.

F. Crown should be clean and true (machined).

G. Ball détente yoke lock:

1. Must secure yoke without movement.
2. Be positive.
3. Détente must not be drilled into barrel threads.

H. Check overtravel stop in trigger guard:

1. Drilled and tapped on center.
2. Point of contact on center bow.

FIELD INSPECTORS GENERAL OBSERVATIONS AND COMMENTS: