



**Figure 8-** Colt 1860 Army Revolver exploded action parts illustration by Heritage-VSP Staff artist is shown for comparison and reference due to action component design similarity. Consult collector publications for additional data on the Colt Army Model of 1860 and other percussion revolvers.

**Component wear and tolerance related problems:** (1) **Short and/or failed cylinder carry-up** (failure to rotate the cylinder to chamber/bore alignment and cylinder bolt index position). In single stage hand/cylinder ratchet mechanisms, carry-up problems can be caused by any one, or combination, of the following: (a) a short hand; (b) top hand surface worn, misfit, or damaged; (c) cylinder ratchet engagement surface(s) worn, altered, damaged, or mislocated; (d) base pin loose in frame or excessive cylinder/base pin clearance (cylinder base pin hole oversize or cylinder base pin undersize); (e) hammer screw/pivot pin hole in the frame or hammer worn or mislocated; (f) hand pivot stem mislocated, undersize, or damaged; (g) hand pivot stem hole in hammer mislocated or oversize; (h) hand deflection (hand slot in frame oversize, misfit, altered, mislocated, or damaged and/or hand spring weak, altered, or damaged). (2) **Bolt timing problems** (late or failed bolt pickup and early or late bolt drop) can be caused by any one, or combination, of the following: (a) a soft, worn, misfit, misbent, otherwise altered, or damaged rear bolt arm; (b) a worn, misfit, altered or damaged bolt cycling cam on the hammer; (c) hammer and/or trigger screw shanks undersize; (d) hammer and/or trigger/bolt screw holes in the hammer, bolt, or frame oversize or mislocated.

**Action malfunction and historically used timing remedies-** (1) **Cylinder carry up problems:** Replace the hand, cylinder, base pin, hammer, hammer screw, or other off-tolerance part. In the case of hand wear only (or moderate hand/ratchet wear), replace or peen/stretch the hand (or add metal by welding) and refit the hand. (2) **Bolt timing problems:** Replace the bolt, bolt screw, hammer, or hammer cam, hammer screw, or other off-tolerance part and then fit the left rear bolt arm to the hammer cam as needed to correctly sequence and time bolt pickup and bolt drop.