

**OPERATIONS SAFETY NOTICE**

04-20-00

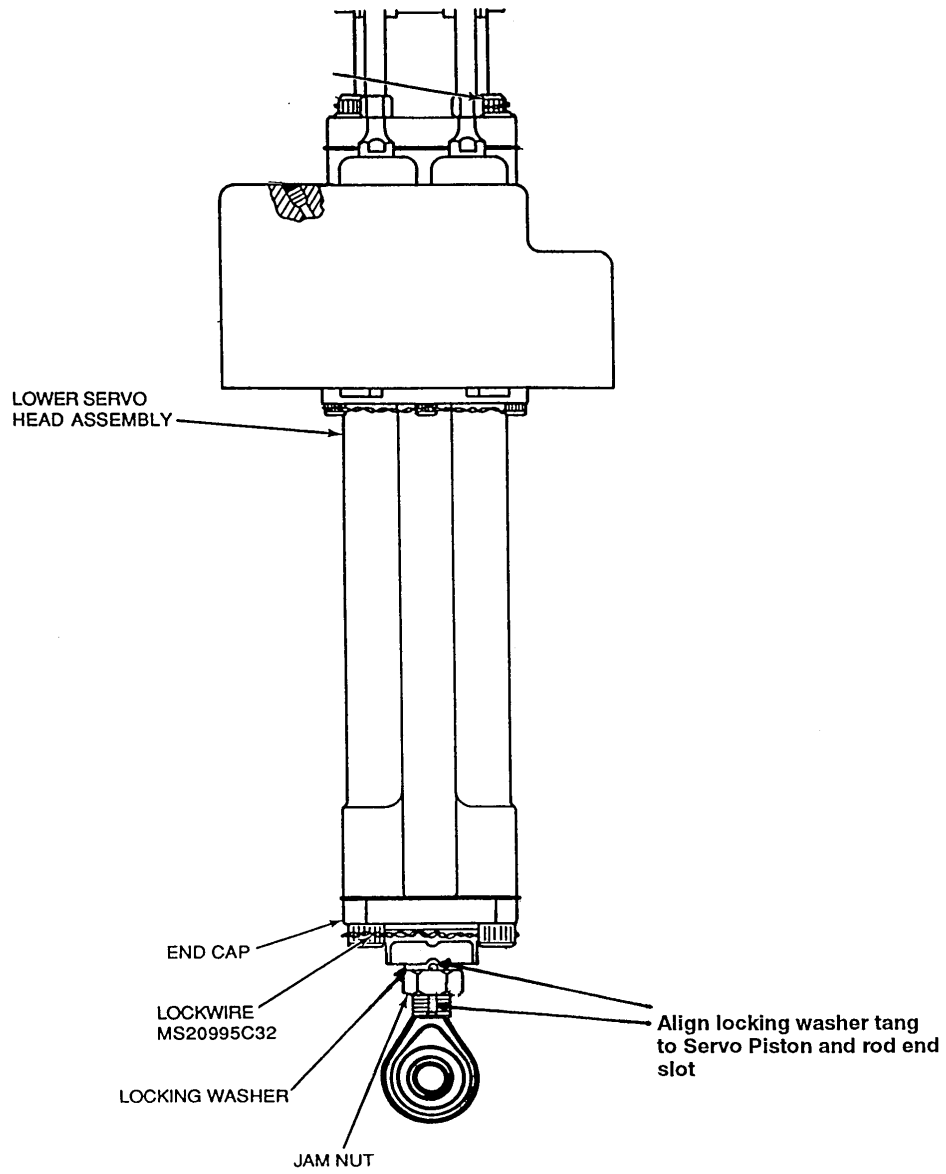
OSN 205A-1-00-36
OSN 212-00-37
OSN 412-00-23

TO: All Owners/Operators of Bell 205A-1, 212, and 412 Helicopters.

SUBJECT: MAIN SERVO ACTUATOR 212-076-005-ALL, LOWER ROD-END BEARING

Bell Helicopter Textron has learned of an incident in which a model 212 experienced collective control restriction while attempting to lift off from a platform. Preliminary investigation revealed that the lower rod end bearing jam nut on the collective servo was found loose. It appears that the locking washer may have been damaged while securing the jam nut, causing a false torque indication. The servo actuator piston was then able to rotate, allowing the rod end to migrate out of the piston.

The minimum torque for the jam nut is 200 in/lbs. The locking washer should be properly seated into the servo piston slot and aligned to the rod end slot prior to tightening the jam nut. The jam nut should be tightened while holding the rod end. If the locking washer rotates while applying torque to the jam nut, the jam nut should be loosened and the locking washer replaced. Replacement locking washers (NAS513-6) should have a green dye finish on them to indicate that the part has been magnetic particle inspected at manufacture.



**Main Servo Actuator
212-076-005-ALL**

FIGURE 1