

CAUTION

If landing gear damper extension is incorrect the defective damper must be removed and serviceable unit installed.

- a. Visually inspect landing gear dampers for leakage. Replace damper if loss of hydraulic oil is noted.
- b. Observe stance of helicopter. If stance is nose down or if extension of aft dampers appears to be unusual, perform the following checks.
 - (1) Raise and lower the tailboom above and below the normal at-rest position three times.
 - (2) On the last cycle, slowly lower the tailboom to an at-rest position and observe stance of helicopter. If stance of helicopter or extension of aft dampers still appears unusual, perform step (3).
 - (3) Measure distance from shoulder of damper upper cap to top edge of damper bottom cap on all dampers. (See dimension A, Fig. 12-1.) Replace any damper measuring less than the following dimensions:

	With Main Tank Only		With Aux Tank Kit Installed	
	Left	Right	Left	Right
Aft	8.4	8.0*	8.0*	*8.0
Forward	9.1	8.7	8.7	8.7

*When dimension is less than 8.0-inches, recheck extension per periodic inspection method (Para 12-7) before replacing aft damper.

12-7. PERIODIC INSPECTION OF LANDING GEAR DAMPER EXTENSION. Perform the following procedure at periodic inspection interval specified in HMI Appendix B. The main and auxiliary fuel tanks are to be full when inspecting the dampers.

- a. Place helicopter on smooth, hard concrete surface. Raise tailboom so that center of tail rotor is approximately 5-1/2 feet above ground; then lower tailboom slowly to an at-rest position.

NOTE

If concrete is not available, helicopter may be placed on surface finished 2-inch by 12-inch wooden planks placed under the skid tubes adjacent to (but not under) the skid shoes.

- b. Measure and record distance from shoulder of damper upper cap to top edge of damper bottom cap on all dampers. (See dimension A, Fig. 12-1.)
- c. Push down on tailboom until forward end of skid tubes leave ground. Release the down load on the boom slowly, allowing the boom to raise to an at-rest position.
- d. Measure and record dimension A for each of the dampers.
- e. Determine average of the dimensions for each forward and aft damper (steps b. and d. above).
- f. If average dimension for aft damper is less than following dimensions, replace the aft damper. If average dimension for forward damper is less than following dimensions, perform additional inspection in step g.

	With Main Tank Only		With Aux Tank Kit Installed	
	Left	Right	Left	Right
Aft	8.45	7.93	7.93	7.93
Forward	9.86	9.61	9.61	9.61

- g. Place one 150-pound weight as nearly as possible over each of the forward dampers (two 150-pound weights required) and repeat steps b. thru d. above. Replace any forward damper if average dimension is less than the following dimensions:

	With Main Tank Only		With Aux Tank Kit Installed	
	Left	Right	Left	Right
Forward	8.5	8.3	8.3	8.3