

7-11. LANDING GEAR DAMPERS - INSPECTION

Four poppet type nitrogen charged hydraulic units in the landing gear assembly dampen landing shock and help prevent ground resonance. The dampers are mounted between the helicopter centerframe section and the landing gear skids (two for each skid, left-and right-hand sides). Ground resonance and possible destruction of the helicopter may result if landing gear dampers are not functioning properly. Perform the following check at each preflight inspection to ensure proper extension of dampers.

Note: Ensure that the helicopter is in an empty-weight configuration (no passengers or cargo aboard) but with full fuel load.

1. Visually inspect landing gear dampers for leakage. Replace damper if loss of hydraulic oil is noted.
2. Observe stance of helicopter. If stance is nose down or if extension of aft dampers appears to be unusual, perform the following checks.
3. Raise and lower the tailboom above and below the normal at-rest position three times.
4. 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 the following step.
5. Measure distance from shoulder of damper upper cap to top edge of damper bottom cap on all dampers. Replace any damper measuring less than the dimensions in Table 7-3

Table 7-3. Landing Gear Damper Dimensions				
	With Main Tank Only		With Auxiliary Tank Kit Installed	
	Right	Left	Right	Left
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 100-Hour Inspection Method (Refer to HMI) before replacing aft damper.				