NOSE LANDING GEAR - INSPECTION/CHECK

1. General

A. This section has the inspections and checks necessary to keep the nose landing gear in a serviceable condition.

TASK 32-20-00-210

2. Drag Link Forward Support Seal General Visual Inspection

A. For airplanes 20800553 and on, and airplanes 208B5076 and on, this task gives the procedures to do a general visual inspection of the drag link forward support seal.

B. Special Tools

(1) None

C. Access

(1) Remove the drag link spring fairing.

D. Do a Drag Link Forward Support Seal General Visual Inspection.

(1) Inspect the drag link forward support.

(a) Examine the fillet seal on the forward and aft sides of the forward support for the entire circumference of the spring.

(b) Make sure that the seal is not broken, loose, or deteriorated.

(c) If seal is broken, loose, or deteriorated, do the Drag Link Forward Support General Visual Inspection in this section.

E. Restore Access

(1) Install the drag link spring fairing.

END OF TASK

TASK 32-20-00-211

3. Drag Link Forward Support General Visual Inspection

A. For airplanes 20800553 and on, and airplanes 208B5076 and on, this task gives the procedures to do a general visual inspection of the drag link forward support.

B. Special Tools

(1) None

C. Access

(1) Remove the drag link spring fairing.

D. Do a Drag Link Forward Support General Visual Inspection.

(1) Inspect the drag link forward support.

(a) Remove the drag link spring assembly from the airplane. Refer to Drag Link Spring Removal/Installation.

(b) Remove the fillet seal on the forward and aft sides of the forward support for the entire circumference of the spring.

(c) Remove the drag link forward support from the spring assembly. Refer to Drag Link Spring Support Liner Removal/Installation.

(d) Examine the entire circumference of the drag link spring and the forward support for any sign of corrosion.

(e) If corrosion is found, repair or replace the drag link spring, liner and bushing as needed. Refer to Nose Landing Gear Drag Link Spring Inspection/Repair.

(f) Install the drag link forward support on the spring assembly. Refer to Drag Link Spring Support Liner Removal/Installation.

(g) Install the drag link spring assembly on the airplane. Refer to Drag Link Spring Removal/Installation.

(h) Replace the seal with a new fillet seal using Type 1, Class B sealant. Refer to Chapter 20, Fuel, Weather and High-Temperature Sealing - Maintenance Practices.

E. Restore Access

(1) Install the drag link spring fairing.

END OF TASK

TASK 32-20-00-220

4. Nose Landing Gear Detailed Inspection

A. General

(1) This task gives the procedures to do a detailed inspection of the nose landing gear.

B. Special Tools

(1) None

C. Access

(1) Remove the nose wheel fender (if installed), drag link spring fairing, and the lower cowling to get access to nose gear attach points.

D. Do a Nose Landing Gear Detailed Inspection.

(1) Inspect the drag link spring fairing for cracks, wear, loose rivets, broken or missing attachment hardware.

(2) Jack the airplane. Refer to Chapter 7, Jacking - Maintenance Practices.

(3) Move the nose gear attach points manually at the engine mount and examine for looseness.

(4) Examine the nose gear drag link spring attach structure for cracks, loose bolts, elongated holes, and corrosion.

(a) Examine the nose gear spring yoke for corrosion, security of installation and freedom of rotation at the bearing.

(b) Lubricate the nose gear spring yoke bearing. Refer to Chapter 12, Landing Gear - Servicing.

(5) Examine the nose gear shock strut for evidence of hydraulic leakage.

(6) Examine the nose wheel fork for damage, corrosion and security of installation.

(7) Examine the torque links for general condition, wear at the attach points, and security of installation.

(a) Lubricate the torque links at the five lubrication points. Refer to Chapter 12, Landing Gear - Servicing.

(8) Examine the nose gear trunnion bearings for looseness.

(a) Lubricate the three lubrication points. Refer to Chapter 12, Landing Gear - Servicing.

(9) Examine the nose gear shimmy damper for general condition, security, and freedom of movement through its full range of travel.

(10) Examine the nose gear steering bungee attachment at the steering bellcrank.

(11) Lower and remove the airplane from the jacks. Refer to Chapter 7, Jacking - Maintenance Practices.

E. Restore Access

(1) Install the nose wheel fender (if removed), drag link spring fairing, and the lower cowling.

END OF TASK

5. Nose Wheel Grease Seal Bore and Cup Backing Bore Surfaces

A. Inspection Procedures.

(1) Inspect grease seal bore and cup backing bore in nose gear wheel halves for corrosion and pitting due to water accumulation. If evidence of corrosion or pitting is discovered, rework in accordance with Nose Landing Gear - Maintenance Practices.