

## System and Components Requirements

### 7-1 System and Component Requirements

#### Note

All areas opened for inspection shall be cleaned prior to inspection. All aircraft disassembly, cleaning, resealing and refinishing of defective surfaces of access panels is considered basic to this TRD (interior and exterior surfaces). Limit inspection to the extent of required disassembly.

#### 7-1.1 Aileron Control Differential Bellcrank Assembly Torque Tube

**Requirement** - Remove, disassemble, clean, reassemble and reinstall. Strip, degrease, clean, and inspect the aileron control differential bellcrank torque tube for corrosion. Prior to reinstallation, coat interior surface of the torque tube with MIL-C-16173, Grade 1. If corrosion is noted and classified as major damage, discard aileron control differential bellcrank torque tube and replace.

**Performance Specification** - This requirement is met when:

- Aileron control differential bellcrank Assembly has been inspected.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Torque tube interior has been coated with MIL-C-16173, grade 1.
- Bellcrank has been reinstalled.

#### 7-1.2 Aileron Assembly

**Requirement** - Inspect Zone 11.4 and 14.4. This zone comprises the internal structure of the aileron and trim tab, including tab hinges and actuator link attachments. Internal structure can be accessed by removing front spar access plates (11) per aileron.

#### Note

Ailerons and trim tabs will be balanced as a complete assembly if any repair has been accomplished IAW NA 01 75PAA-3-2. The aileron and trim tabs will be repaired per NA 01 75PAA-3-1.

**Performance Specification** - This requirement is met when:

- Left and right ailerons are inspected.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Left and right ailerons and access panels have been reinstalled and rigged.

#### 7-1.2.1 Aileron Hinge Bearings

**Requirement** - Inspect aileron hinge bolts. Replace all bolts that indicate excessive wear/galling.

#### Note

Replace all bearings with grease seal separation.

**Performance Specification** - This requirement is met when:

- Inspection is completed.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.

### **7-1.3 Elevator Assembly**

**Requirement** - Inspect Zones 15.4, 15.5, 15.7, and 15.8. Zones 15.4/15.7 comprise the upper and lower surfaces of the horizontal stabilizer, elevator and tabs, including access panels and electrostatic dischargers for both left and right horizontal stabilizers and elevators. Zones 15.5/15.8 comprises the internal structure of the trailing edge, elevator and tabs, including hinges and link attachments. It is located aft of the rear horizontal stabilizer spar. Zones 15.5 and 15.8 are for both the left and right horizontal stabilizers and elevators.

#### **Note**

Elevators and trim tabs will be balanced as a complete assembly if any repair has been accomplished. Repairs to the elevator and trim tabs will be performed per NA 01 75PAA-3-1.

**Performance Specification** - This requirement is met when:

- Left and right elevators are inspected.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Left and right elevators have been reinstalled and rigged.

### **7-1.4 Elevator Torque Tube and Bearings**

**Requirement** - Remove elevator torque tube and bearings, clean, lubricate and inspect.

#### **NOTE**

This inspection must be performed before applying lubricant as the lubricant could cover up a defect

**Performance Specification** - This requirement is met when:

- Torque tube and bearings are removed, disassembled and cleaned.
- Inspection has been completed.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Elevator torque tube and bearings has been lubricated and reinstalled.

### **7-1.5 Rudder Bellcrank/Torque Tube**

**Requirement** - Remove, disassemble, clean, inspect bellcrank, upper fitting and torque tube for elongated holes, corrosion, cracks, obvious defects, and bearings for serviceable condition. Replace upper torque tube fitting if stencil **AFB-278B** (insert repair) is installed.

**Performance Specification** - This requirement is met when:

- Inspection is completed.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Bellcrank is reinstalled.

### **7-1.6 Rudder Assy.**

**Requirement** - Inspect zones 15.10 and 15.11. Zone 15.10 comprises the vertical stabilizer rear spar, rudder hinges, trim tab hinges and operating components, and the internal structure of the rudder and trim tab. Zone 15.11 comprises external surfaces of the vertical stabilizer, rudder and rudder trim tab, including access panels and electrostatic dischargers.

#### **Note**

Rudder and trim tabs will be balanced as a complete assembly if any repair has been accomplished. Rudder and tabs will be repaired per NA 01 75PAA-3-1.

**Performance Specification** - This requirement is met when:

- Inspection is completed.
- Discrepancies have been recorded and classified.
- Discrepancies approved by the AGR have been corrected.
- Rudder is reinstalled and rigged.

#### **7-1.8 Fuel Tank 1, 2, 3, 4 Surge Box and Boost Fuel Pump System**

**Requirements** - The depot activity shall remove, inspect and clean fuel boost pump and components (including inlet screens) located in the surge boxes. Inspect for elongated holes, cracks, corrosion, contamination, Foreign Object Damage (FOD) and serviceable check valves. Inspect and seal surge box walls, as required. Inspect surge box flapper valves for distortion and proper mating.

**Performance Specification** – This requirement is met when:

- Inspection is complete;
- Discrepancies have been recorded and classified;
- Discrepancies approved by the Government have been corrected;
- Surge Boxes are sealed IAW Lockheed Drawings #'s 910356 and 824346; and
- Flapper Valves are installed and inspected IAW NA 01-75PAA-2-4.7 (WP 05 00)

#### **7-1.10 Control Column Friction Plates**

**Requirement** – The depot activity shall inspect for proper torque.

**Performance Specification** - This requirement is met when:

- Control column friction plates are torqued IAW NA 01-75PAA-2-2.

#### **7-1.11 Elevator Down-Spring Cartridge**

**Requirement** – The depot activity shall remove, disassemble and clean. Inspect for worn parts. Lubricate and reassemble in accordance with NA 01-75PAA-2-50.

**Performance Specification** - This requirement is met when:

- Inspection is complete;
- Discrepancies have been recorded and classified;
- Discrepancies approved by the Government have been corrected;
- Cartridge is lubricated and reassembled IAW NA01-75PAA-2-50; and
- Cartridge is reinstalled on aircraft.

#### **7-1.12 Force Link Tab Mechanical Spring Cartridge**

**Requirement** – The depot activity shall remove, disassemble and clean. Inspect for worn parts. Lubricate and reassemble in accordance with NA01-75PAA-2-50.

**Performance Specification** - This requirement is met when:

- Inspection is complete;
- Discrepancies have been recorded and classified;
- Discrepancies approved by the Government have been corrected;
- Cartridge is lubricated and reassembled IAW NA 01-75PAA-2-50; and
- Cartridge is reinstalled on aircraft.

#### **7-1.13 Force Link Tab Mechanical Roll Off Cartridge**

**Requirement** – The depot activity shall remove, disassemble and clean. Inspect for worn parts. Lubricate and reassemble in accordance with NA 01-75PAA-2-50. Inspect cartridge end fitting for frozen or worn bearings.

**Performance Specification** - This requirement is met when:

- Inspection is complete;
- Discrepancies have been recorded and classified;
- Discrepancies approved by the Government have been corrected;
  
- Cartridge is lubricated and reassembled IAW NA 01-75PAA-2-50; and
- Cartridge is reinstalled on aircraft.

#### **7-1.14 Cabin Heat Exchangers**

**Requirement** - The depot activity shall inspect and clean the left side and right side cabin heat exchangers per NA 01-75PAA-2-50.

**Performance Specification** - This requirement is met when:

- Cleaning has been performed;
- Inspection has been completed;
- Pressure test completed replace with new **as required**;
- Discrepancies have been recorded and classified; and
- Discrepancies approved by the Government have been corrected. (separately priced contract line item (CLIN) for commercial activities).

#### **7-1.15 Bleed Air Manifold**

**Requirement** – Perform bleed air manifold and ducting leak check per NA01-75PAA-2-2.4 WP 021 00 Paragraph 10 and 11.

**Performance Specification** – This requirement is met when:

- Leak check is completed
- Discrepancies have been recorded and classified
- Defective valves have been replaced with new or refurbished valves (separately priced contract line item (CLIN) for commercial activities); and.
- Discrepancies identified by the Government have been corrected

