AILERON TRIM SYSTEM - INSPECTION/CHECK

1. General

A. This section has the inspections and checks necessary to keep the aileron trim system in a serviceable condition. **TASK 27-10-02-720**

2. Aileron Trim Tab (Free Play) Functional Check

- A. General
 - (1) This task gives the procedures to do an aileron trim tab (free play) functional check.
- B. Special Tools
 - (1) None
- C. Access
 - (1) None
- D. Do the Aileron Trim Tab (Free Play) Functional Check (Refer to Figure 601).
 - (1) Put the ailerons and the trim tab in the neutral position and secure them from movement.
 - (2) Determine maximum allowable free play, measuring chord length at the extreme inboard end of the trim tab then multiply chord length by 0.025 to get the maximum allowable free play.
 - (3) Use fingertip pressure and move the trim tab trailing edge up and down to examine free play.
 - NOTE: Measure free play at the same point on the trim tab that the chord length was measured. Total free play must not exceed the maximum allowable.
 - (4) If the trim tab free play is less than the maximum allowable, no additional inspection is required.
 - (5) If the trim tab free play is more than the maximum allowable, the following items must be examined:
 - (a) Look for loose fasteners on the trim tab doubler.
 - (b) Examine the hinge, hinge pin, and fasteners on the trim tab doubler.
 - (c) Examine both ends of the push-pull rods and fasteners for wear and loose component parts.
 - (d) If corrosion, worn parts, or loose fasteners are found, replace the fasteners and install new parts in system.
 - (e) Do a second free play inspection.
 - <u>1</u> If the free play is still excessive, remove the aileron trim tab actuator from the airplane and set it on a bench. Refer to Aileron Trim System - Maintenance Practices.
 - <u>2</u> Disassemble the actuator and examine the detail parts for corrosion and excessive wear. Refer to Aileron Trim System - Maintenance Practices.
 - <u>3</u> If corrosion or worn parts are found, replace the parts and reassemble the actuator.
 - (f) Install the actuator in the airplane . Refer to Aileron Trim System Maintenance Practices.
 - (g) Do the free play inspection again.
- E. Restore Access

(1) None

END OF TASK

TASK 27-10-02-640

3. Aileron Trim System Lubrication

- A. General
 - (1) This task gives the procedures to do the aileron trim system lubrication.
- B. Special Tools
 - (1) Dow Corning Molykote DC 321R Bonded Lubrication Spray
- C. Access
 - (1) Remove the applicable wing panels to get to the aileron trim control cables. Refer to Chapter 6, Access Plates and Panels Identification Description and Operation.
- D. Do the Aileron Trim System Lubrication (Refer to Figure 201 found in Aileron Trim System Maintenance Practices).
 - (1) Move the aileron trim cables to the right until they stop.

- (2) Apply Dow Corning Molykote DC 321R lubrication spray on a clean dry cloth until it is damp.
 - NOTE: This cloth is used to lubricate the aileron trim cables and to help keep the lubrication mist from a spray bottle off of the wing.
 - (a) Rub the cloth with the lubrication along the exposed aileron trim cables between the cable ends and the cable housing.
 - <u>1</u> Make sure that all exposed sides of the cables are coated with the lubrication.
 - (b) Make sure that you apply the Dow Corning Molykote DC 321R lubrication where the cable enters the cable housing opening.
- (3) Move the aileron trim cables to the left until they stop and rub the cloth with the lubrication along the areas that were not initially lubricated.
- E. Restore Access
 - (1) Install the wing access panels. Refer to Chapter 6, Access Plates and Panels Identification Description and Operation.

END OF TASK TASK 27-10-02-641

4. Aileron Trim Tab Actuator (2660044-1) Lubrication

- A. General
 - (1) This task gives the procedures to do the aileron trim tab actuator (2660044-1) lubrication.
- B. Special Tools
 - (1) Grease
- C. Access
 - (1) None
- D. Do the Aileron Trim Tab Actuator (2660044-1) Lubrication (Refer to Figure 202 found in Aileron Trim System Maintenance Practices).
 - (1) Remove the aileron trim tab actuator from the airplane and put it on a bench. Refer to Aileron Trim System -Maintenance Practices.
 - (2) Disassemble the aileron trim tab actuator. Refer to Aileron Trim System Maintenance Practices.
 - (3) Do the Inspection and Repair of Aileron Trim Tab Actuator. Refer to Aileron Trim System Maintenance Practices.
 - (4) Do the lubrication and the assembly steps found in Lubrication and Assembly of Aileron Trim Tab Actuator (Airplanes with 2660044-1 Trim Tab Actuator Installed). Refer to Aileron Trim System Maintenance Practices.
 - (5) Install the aileron trim tab actuator in the airplane. Refer to Aileron Trim System Maintenance Practices.
- E. Restore Access
 - (1) None

END OF TASK

TASK 27-10-02-642

5. Aileron Trim Tab Actuator (2661615-1, 2661615-9, or 2661615-10) Lubrication

- A. General
 - (1) This task gives the procedures to do the aileron trim tab actuator (2661615-1, 2661615-9, or 2661615-10) lubrication.
- B. Special Tools
 - (1) Grease
- C. Access
 - (1) None
- D. Do the Aileron Trim Tab Actuator (2661615-1, 2661615-9, or 2661615-10) Lubrication (Refer to Figure 202 found in Aileron Trim System Maintenance Practices).
 - (1) Remove the aileron trim tab actuator from the airplane and put it on a bench. Refer to Aileron Trim System -Maintenance Practices.

- (2) Disassemble the aileron trim tab actuator. Refer to Aileron Trim System Maintenance Practices.
- (3) Do the Inspection and Repair of Aileron Trim Tab Actuator. Refer to Aileron Trim System Maintenance Practices.
- (4) For aileron trim tab actuator (2661615-1), do the lubrication and the assembly steps found in Lubrication and Assembly of Aileron Trim Tab Actuator (Airplanes with 2661615-1 Trim Tab Actuator Installed). Refer to Aileron Trim System - Maintenance Practices.
- (5) For aileron trim tab actuators (2661615- 9 or 2661615-10), do the lubrication and the assembly steps found in Lubrication and Assembly of Aileron Trim Tab Actuator (Airplanes with 2661615- 9 or 2661615-10 Trim Tab Actuator Installed). Refer to Aileron Trim System - Maintenance Practices.
- (6) Install the aileron trim tab actuator in the airplane. Refer to Aileron Trim System Maintenance Practices.
- E. Restore Access

(1) None

END OF TASK

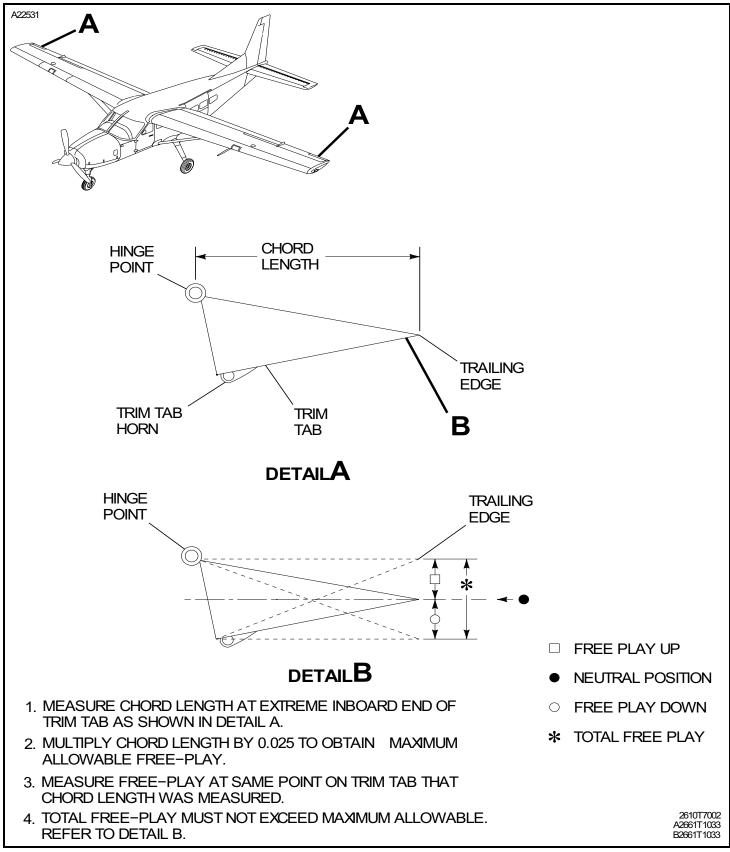
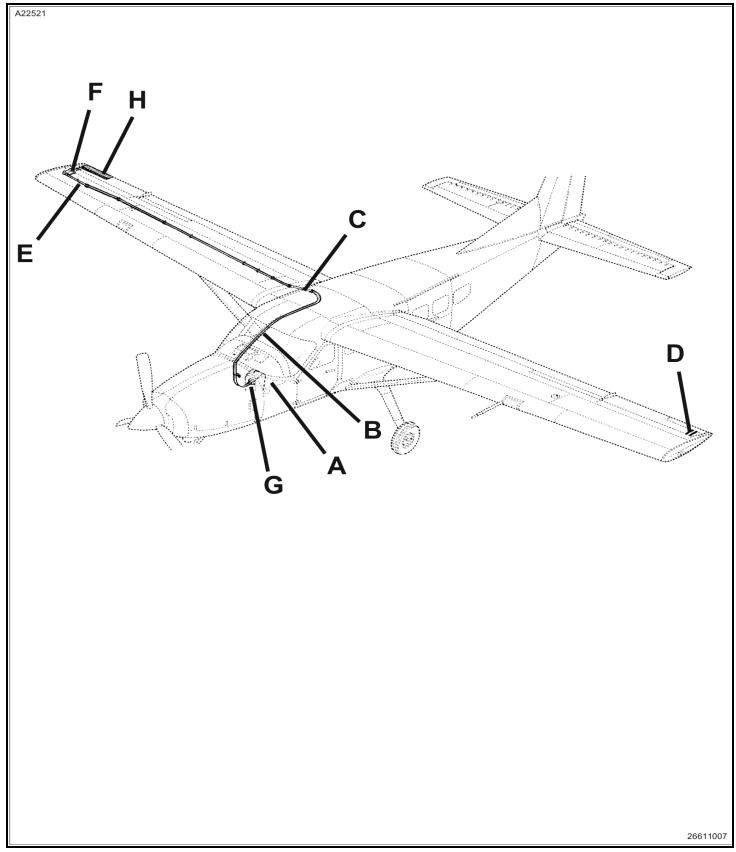
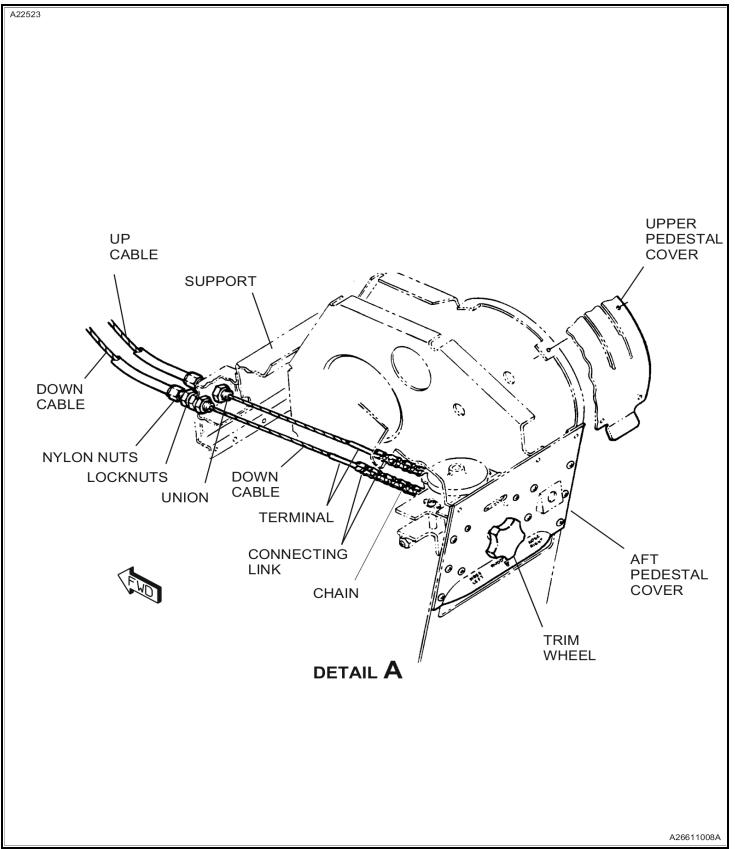


Figure 601 : Sheet 1 : Aileron Trim Tab (Free Play) Functional Check

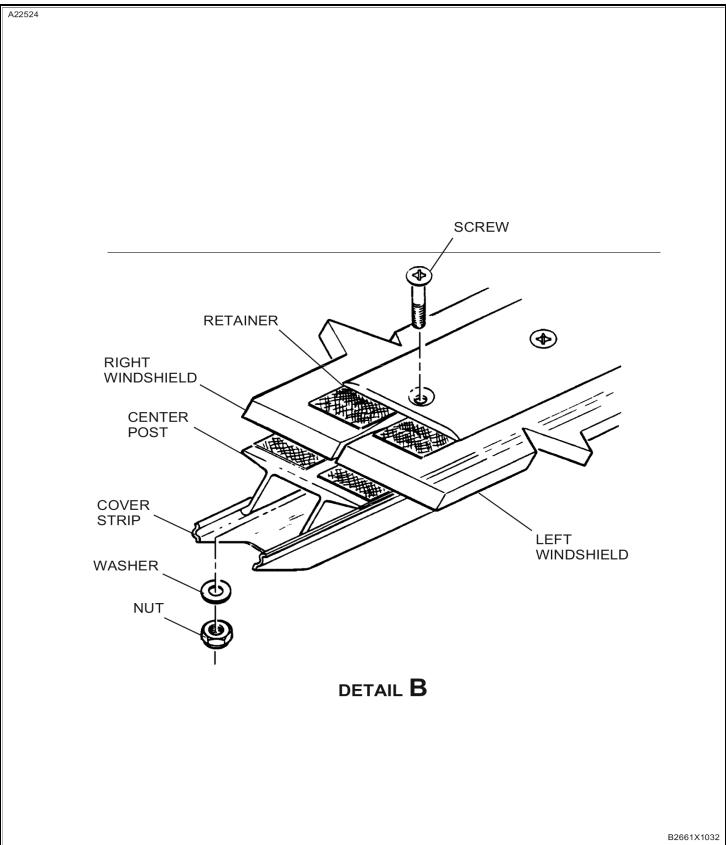




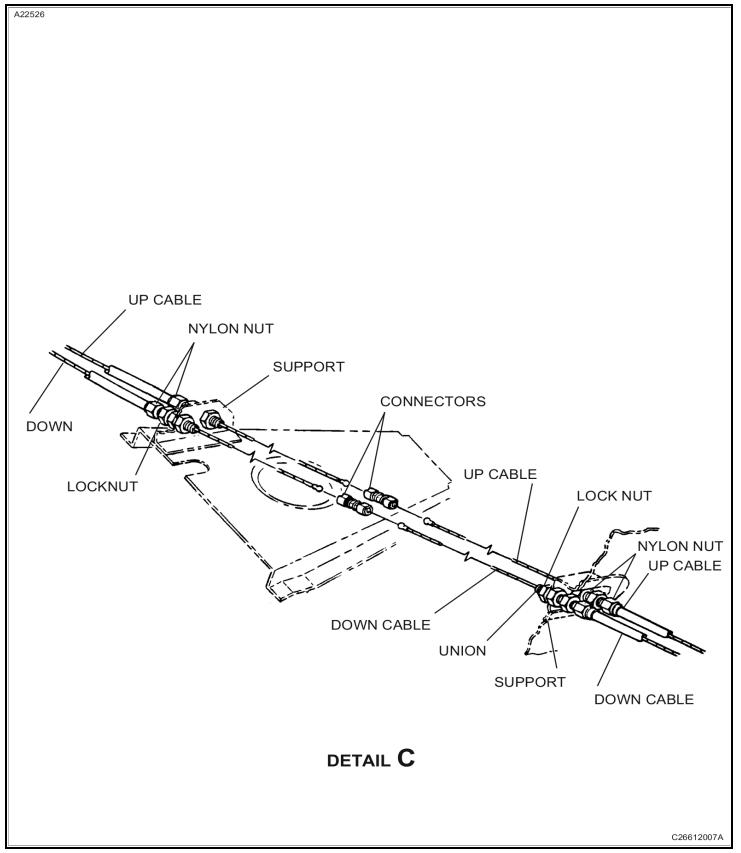


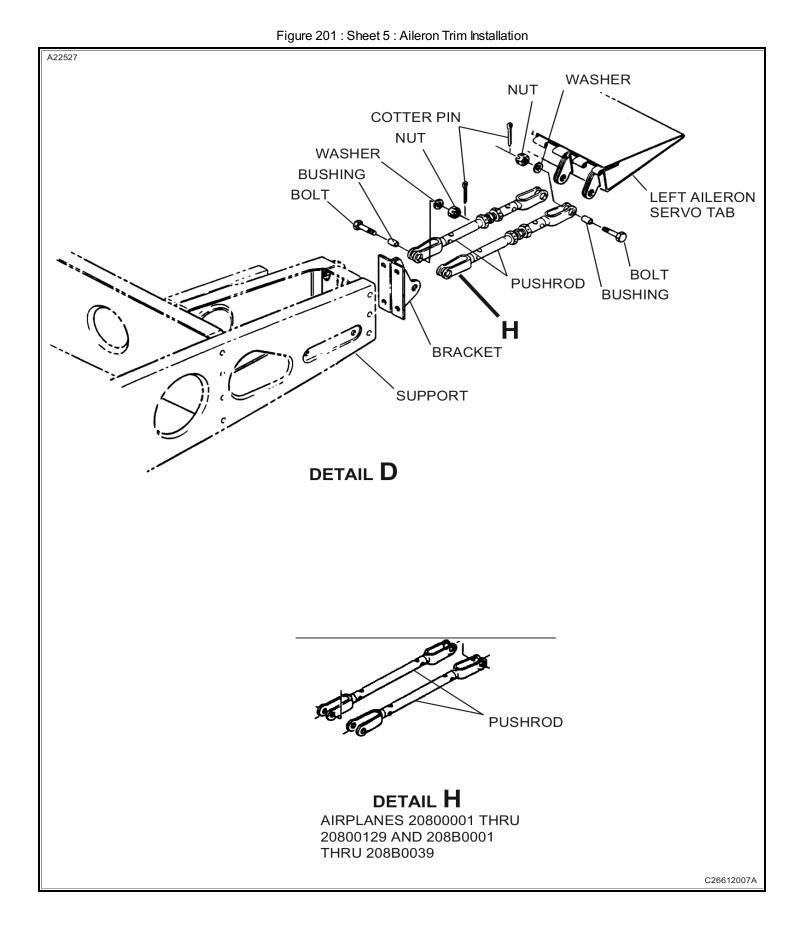


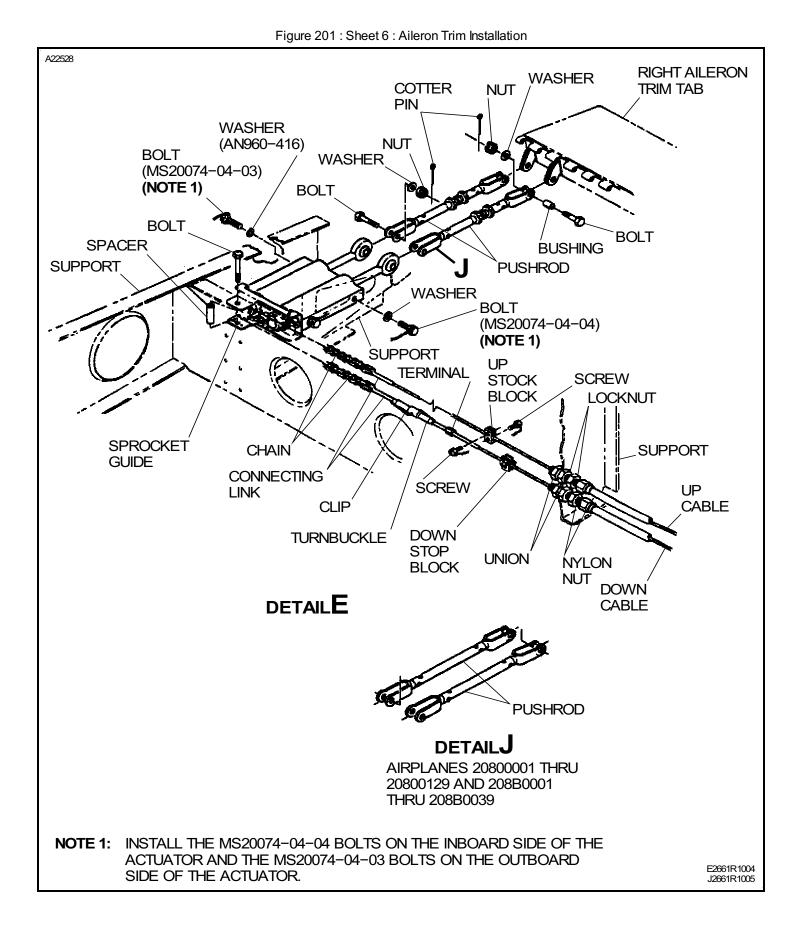




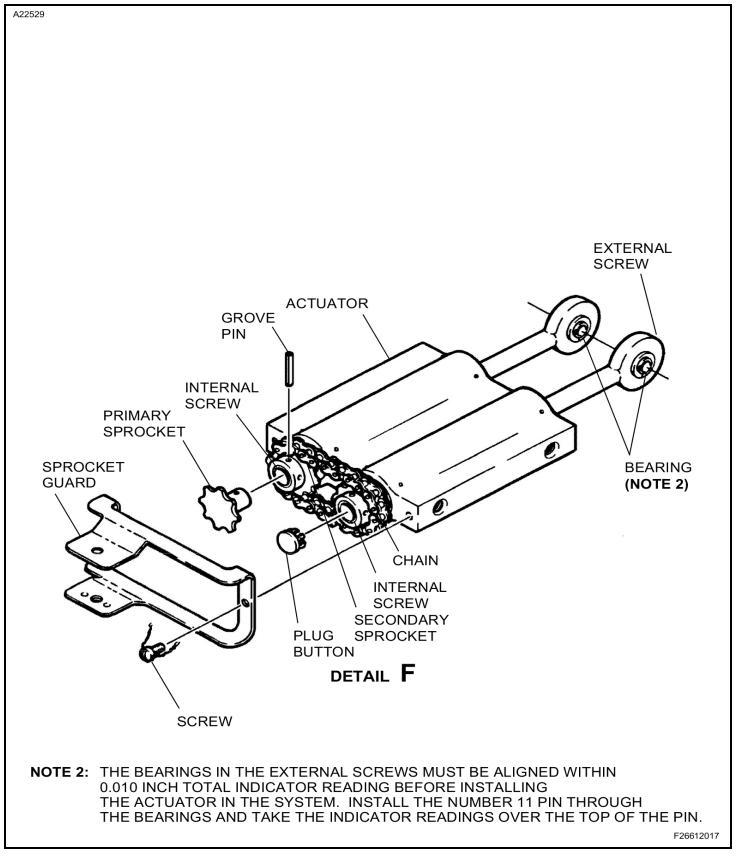




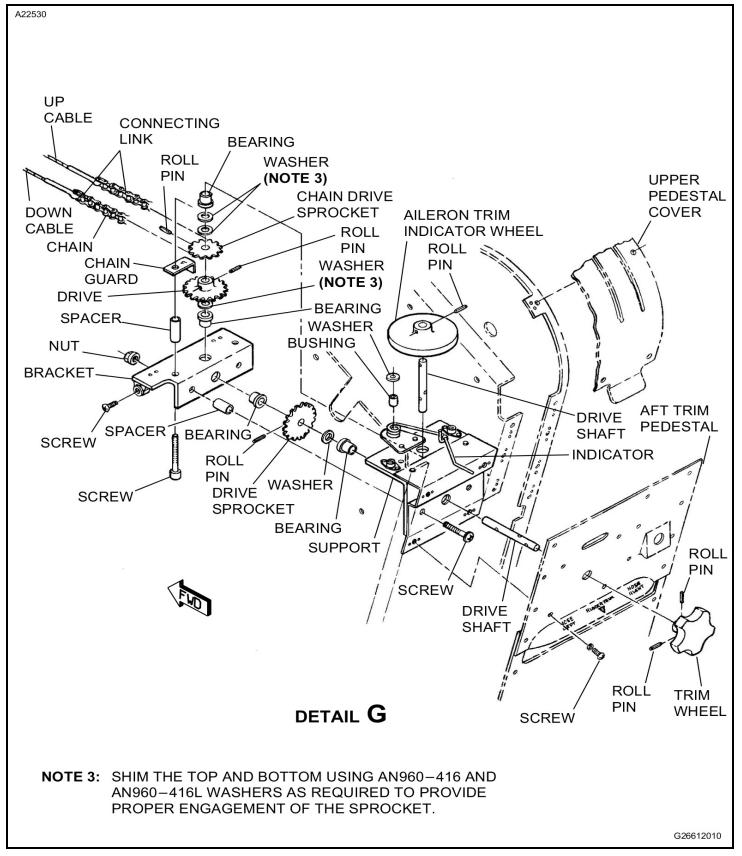


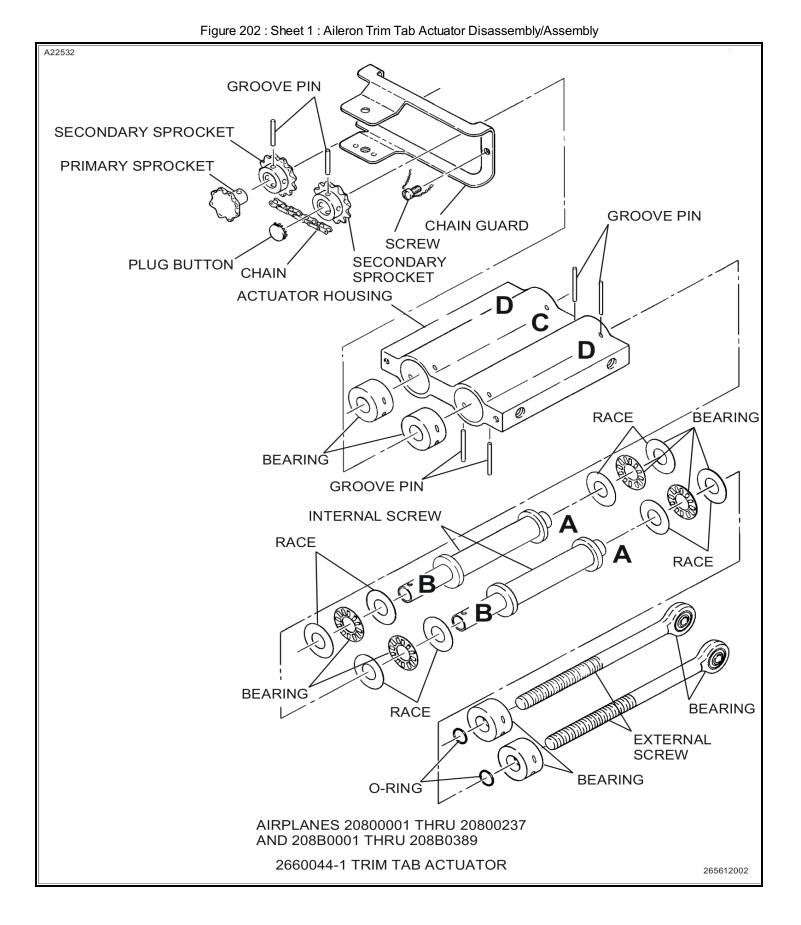


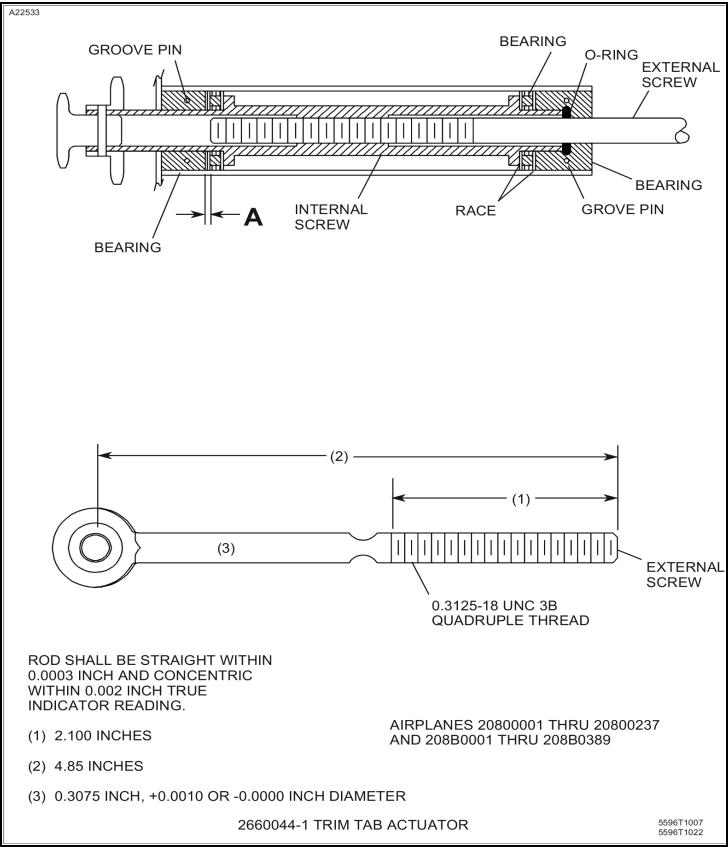




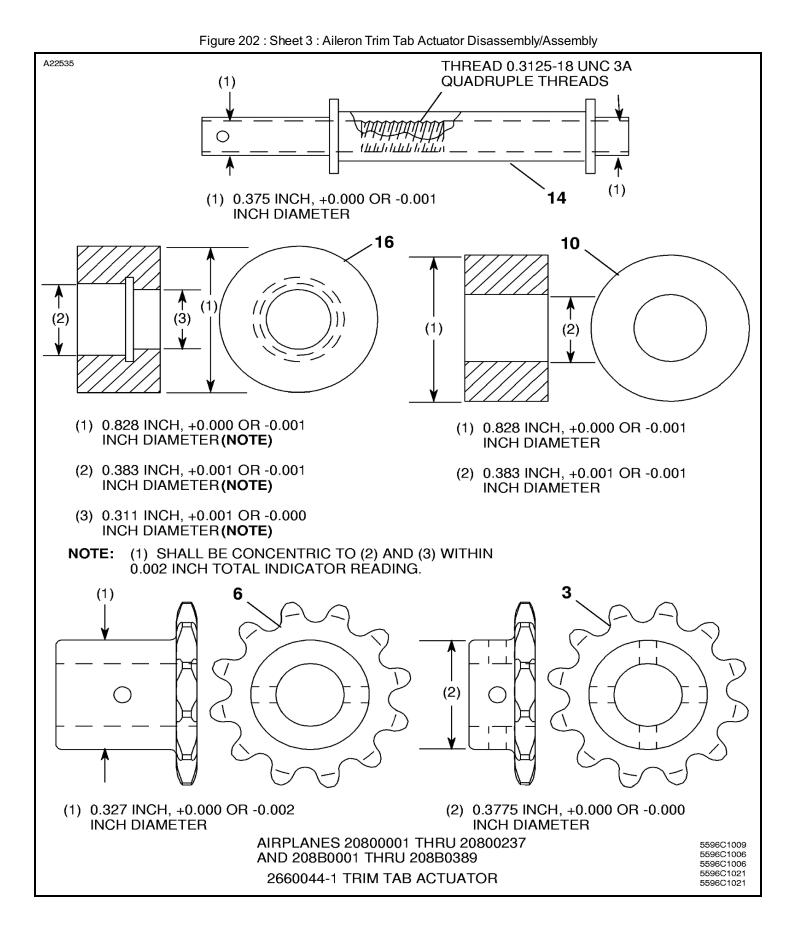








 $[\]label{eq:Figure 202: Sheet 2: Aileron Trim Tab Actuator Disassembly/Assembly$



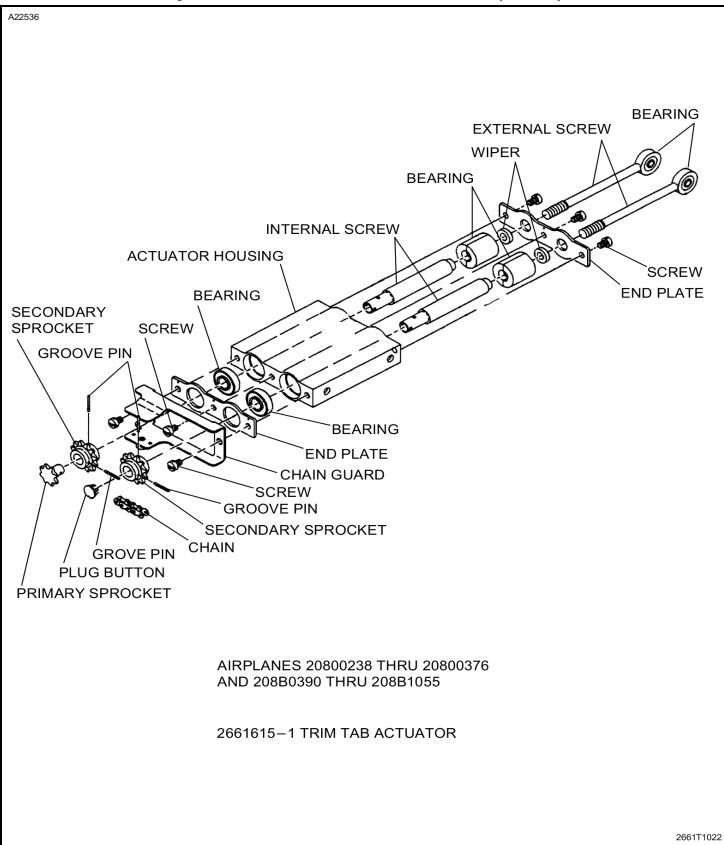
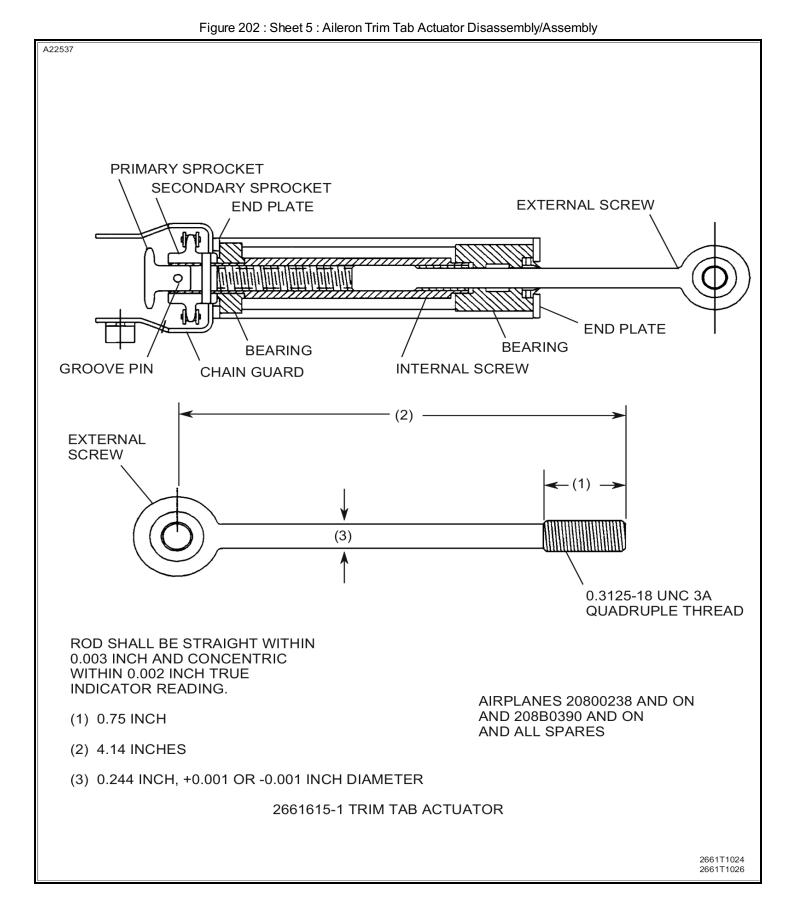


Figure 202 : Sheet 4 : Aileron Trim Tab Actuator Disassembly/Assembly



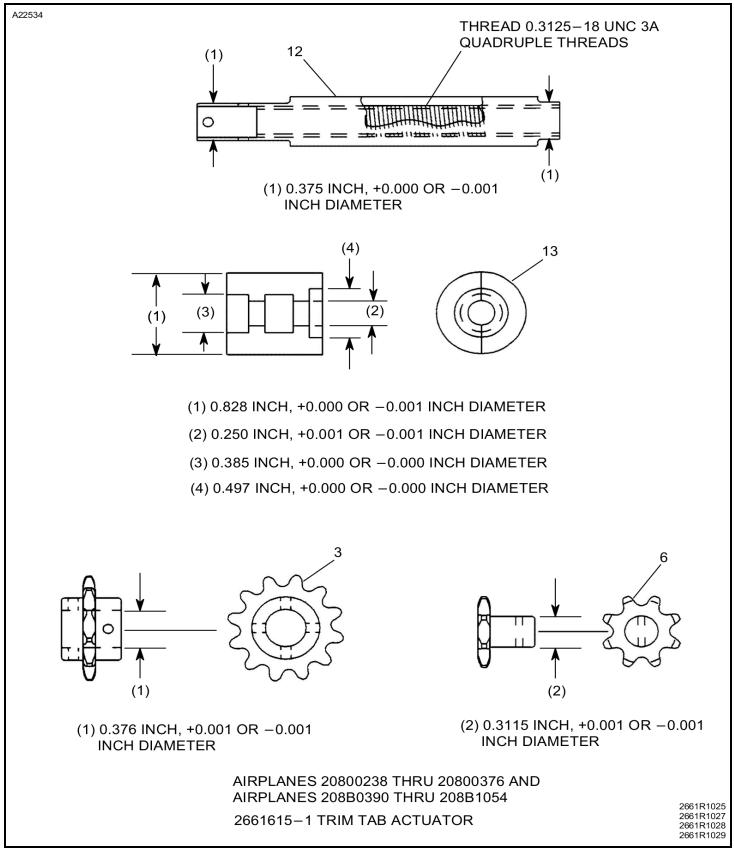


Figure 202 : Sheet 6 : Aileron Trim Tab Actuator Disassembly/Assembly

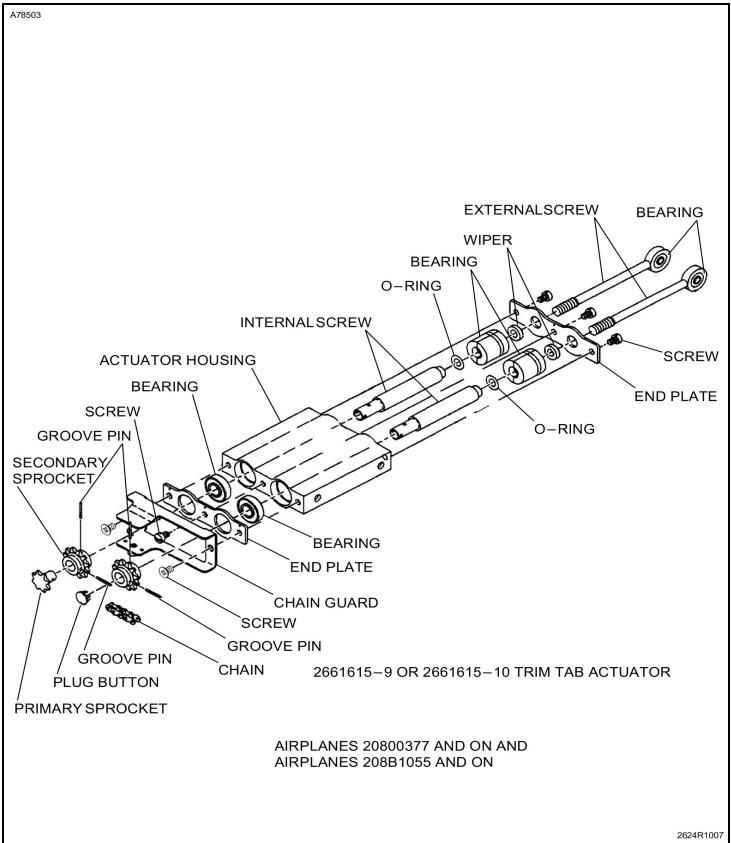


Figure 202 : Sheet 7 : Aileron Trim Tab Actuator Disassembly/Assembly

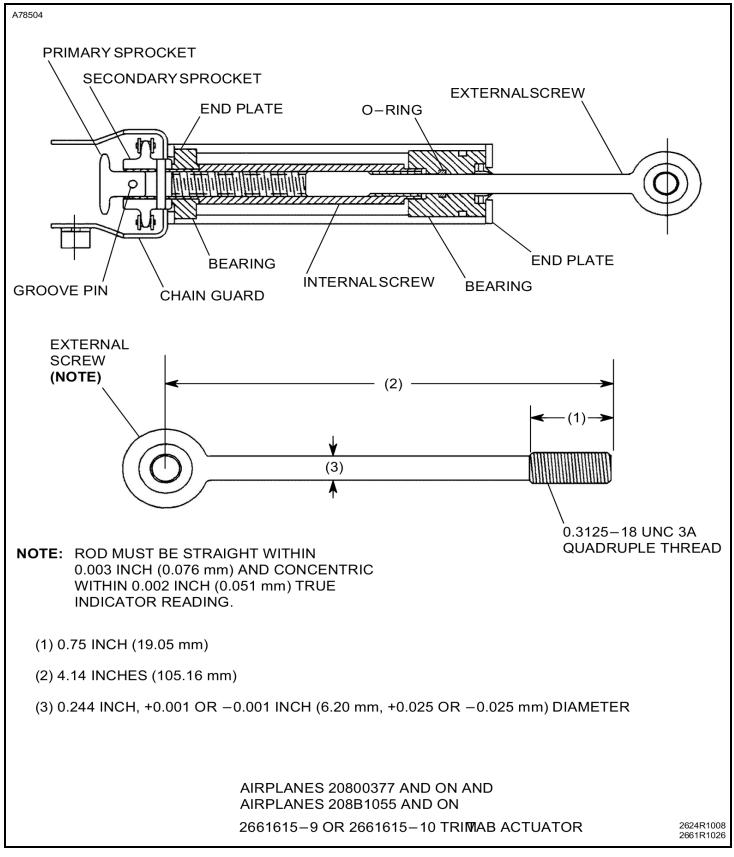


Figure 202 : Sheet 8 : Aileron Trim Tab Actuator Disassembly/Assembly

