

RECOMMENDED SERVICE BULLETIN

NUMBER: SB11-10
REVISION: 00
DATE: 07/29/2011

SUBJECT: FUEL SELECTOR CABLE JAM NUT INSTALLATION

EFFECTIVITY:

KODIAK 100 Series Aircraft Serial Numbers: 100-0001 through 100-0054.

SUMMARY:

In keeping with the robust and rugged design of the KODIAK 100 series aircraft, Quest is recommending a one time installation of jam nuts to the fuel selector cables.

ACTION:

Quest is recommending a one time installation of two (2) jam nuts to each of the fuel shutoff control cables.

COMPLIANCE:

This Recommended Service Bulletin should be complied with on or before the next 100 hour, annual inspection, or scheduled maintenance, whichever comes first.

LOG OF CHANGES:

Revision:	Date:	Description of Change:
00	07/29/2011	Initial Release

ATTACHED DOCUMENTS:

Document #:	Date:	Document Title:
N/A	N/A	N/A

PARTS, TOOLS, AND EQUIPMENT:

The parts, tools and equipment listed below are needed in order to complete the instructions contained within.

Parts and Tools included in this Service Bulletin:

Item	Quantity	Part Number	Description
1	4	AN315-3R	Jam Nut
2	4	MS24665-132	Cotter Pin

Parts and Tools **Not** included in this Service Bulletin:

Item	Quantity	Part Number	Description
N/A	N/A	N/A	N/A

FAA APPROVED:

The modification described in this Recommended Service Bulletin has shown compliance with the applicable Federal Aviation Regulations and is FAA Approved.

INDUSTRY SUPPORT INFORMATION:

N/A

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WEIGHT AND BALANCE:

Negligible

MANPOWER:

The instructions contained in this Recommended Service Bulletin will take approximately:

- 2 Hours

CREDIT AND WARRANTY INFORMATION:

Quest Aircraft Company will reimburse for the cost of this modification up to \$150.00 for aircraft still under factory warranty. For reimbursement send Quest Aircraft Company a copy of the modification record and serial number of the aircraft on which the modification was completed.

Quest Customer Service

Service Bulletin SB11-10

Phone: (208)263-1111 Toll Free: 1(866)263-1112

Email: Customercare@questaircraft.com

COMPLETION:

Record the work performed in the *KODIAK 100 Maintenance Records*.

ACCOMPLISHMENT INSTRUCTIONS:

Accomplishment Instructions are listed in the next section of this Service Bulletin.

ATTACHED DOCUMENTS:

N/A

SPECIAL INSTRUCTIONS:



NOTE: If the fuel selector cable is removed, a minimum bend radius of 3.0" must be maintained.

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1. AIRCRAFT PREPARATION

1. Turn the overhead fuel selectors to the “OFF” position.
2. Remove the flight compartment headliner in accordance with the *KODIAK 100 Maintenance Manual, Chapter 25 “Equipment/Furnishings.”*
3. Remove the overhead fuel selectors in accordance with the *KODIAK 100 Maintenance Manual, Chapter 28 “Fuel.”*
4. Loosen and remove the screws securing the wing root fairings to the aircraft and remove the left and right wing root fairings from the aircraft as shown in **Figure 1-2, Detail A.**


2. JAM NUT INSTALLATION

1. Disconnect the two (2) cockpit clevis terminals (P/N **AN665-21R**) as shown in **Figure 1-1, Detail B.**



NOTE: It is important to reinstall the clevis terminals in the correct location; two methods are recommended to ensure the clevis terminals proper installation. Either count the number of rotations while removing the clevis terminal, or mark the exposed threads on the fuel selector cable before removing the terminal.

2. Position and install the two (2) jam nuts (P/N **AN315-3R**) as shown in **Figure 1-1, Detail C.** Reinstall the two (2) cockpit clevis terminals (P/N **AN665-21R**) and tighten to the correct location using the method used above. Verify that threads can be seen through the witness holes on the clevis terminals (P/N **AN665-21R**). Tighten jam nuts (P/N **AN315-3R**) to a snug fitting, torque to a maximum value of 40 in-lb.
4. Reinstall the overhead fuel selectors in accordance with the *KODIAK 100 Maintenance Manual, Chapter 28 “Fuel”* using two (2) new cotter pins (P/N **MS24665-132**).
6. Disconnect the two (2) wing clevis terminals (P/N **AN665-21R**) from the control cable attach arm (P/N **100-828-4106**) by removing the clevis pin (P/N **MS20392-2C11**) and cotter pin (P/N **MS24665-132**) from each terminal.
7. Unscrew the two (2) wing clevis terminals (P/N **AN665-21R**).



NOTE: It is important to reinstall the clevis terminals in the correct location; two methods are recommended to ensure the clevis terminals proper installation. Either count the number of rotations while removing the clevis terminal, or mark the exposed threads on the fuel selector cable before removing the terminal.

8. Position and install the two (2) jam nuts (P/N **AN315-3R**) as shown in **Figure 1-2, Detail B.**
9. Reinstall the two (2) wing clevis terminals (P/N **AN665-21R**) and tighten to the correct location using the method used above. Connect the terminals to the control cable attach arm (P/N **100-828-4106**) by installing the clevis pin (P/N **MS20392-2C11**) and a new cotter pin (P/N **MS24665-132**) for each terminal. Verify that threads can be seen through the witness holes on the clevis terminals (P/N **AN665-21R**). Tighten jam nuts (P/N **AN315-3R**) to a snug fitting, torque to a maximum value of 40 in-lb.

3. FUEL SYSTEM FUNCTIONAL CHECK

1. With the overhead fuel selectors in the “OFF” position, verify that the microswitch in each wing is not depressed, as shown in **Figure 1-2, Detail C**.
2. Turn the master power switch to the “ON” position.
3. Turn the overhead fuel selectors to the “ON” position.
4. Verify that the annunciations shown in **Figure 1-3**, are not appearing on the primary flight display (PFD).
5. If any of the annunciations shown in **Figure 1-3** are displayed, turn the master power switch and overhead fuel selectors to the “OFF” position, and verify the installation of the clevis terminals. If the aircraft passes the fuel system functional check, proceed to **Section 4**.
6. Repeat the fuel system functional check **Step 1** through **Step 4** until the aircraft passes the fuel system functional check.

4. COMPONENT INSTALLATION

1. Reinstall the flight compartment headliner in accordance with the *KODIAK 100 Maintenance Manual, Chapter 25 “Equipment/Furnishings.”*
2. Position the two (2) wing root fairings to the aircraft and secure using the previously removed screws.

5. RECORD WORK PERFORMED IN KODIAK LOG BOOKS

Upon completion, record all work performed in the appropriate *KODIAK 100 Maintenance Records*.

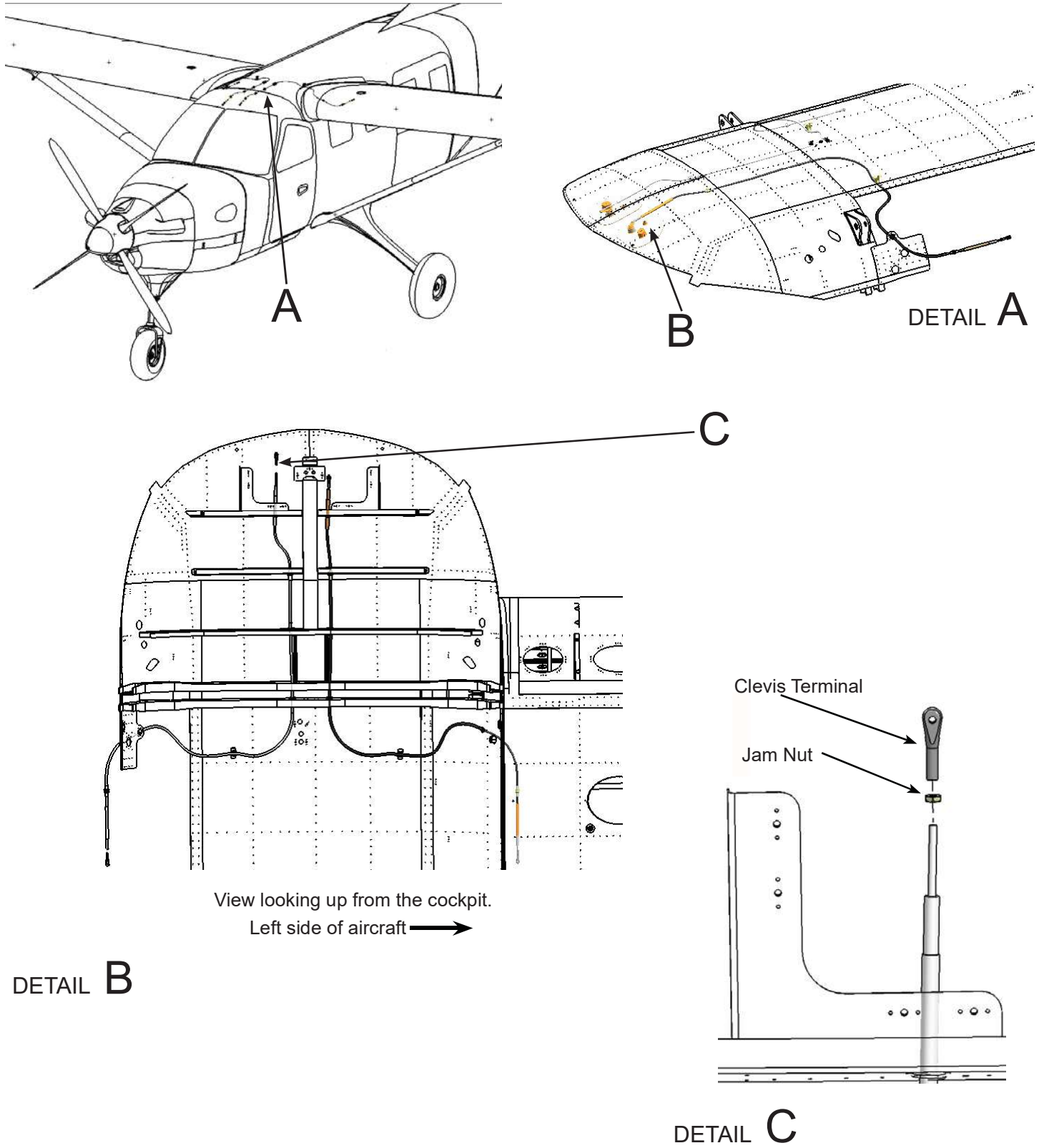
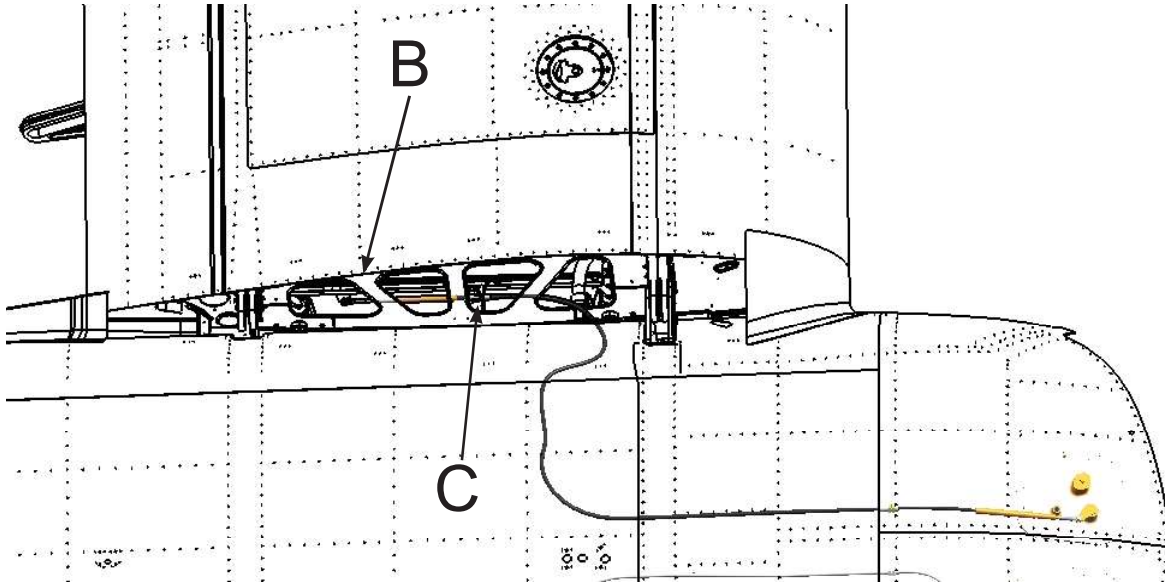
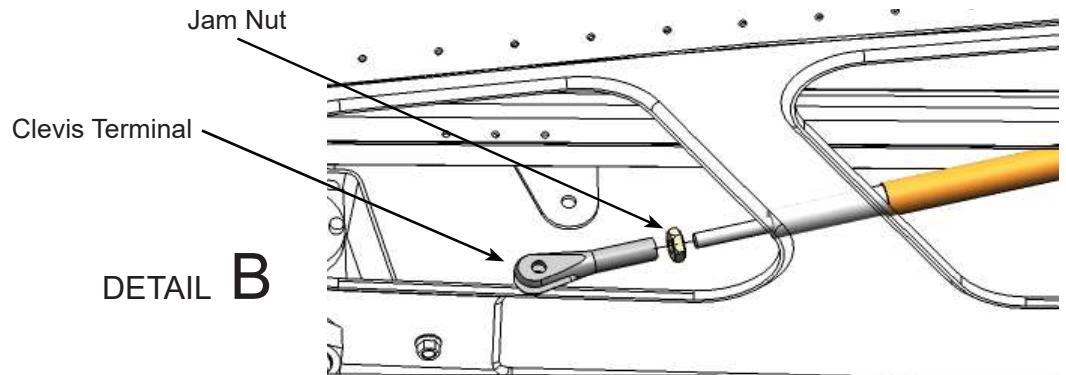


Figure 1-1: Cockpit Fuel Tank Shutoff Wing Nut Installation



DETAIL A



DETAIL B



Microswitch shown is in the
"OFF" position.

DETAIL C

Figure 1-2: Wing Fuel Tank Shutoff Wing Nut Installation



Annunciation indicates that the Left and Right selectors are in the “OFF” position.



Annunciation indicates that the Left selector is in the “OFF” position.



Annunciation indicates that the Right selector is in the “OFF” position.

Figure 1-3: Garmin G1000 Annunciations