

MANDATORY SERVICE BULLETIN

NUMBER: SB-026
REVISION: A
DATE: 11/25/2009

SUBJECT: ELECTRICAL SYSTEM; Main Wiring Harness

EFFECTIVITY:

CABIN WIRING HARNESS INSPECTION: KODIAK 100 Series Aircraft Serial Numbers:

- **100-0001 thru 100-0023**

SUBJECT:

Quest Aircraft Company LLC. is mandating a one-time procedure to add positive restraint to 4 areas of the Main Cabin Wire Harness which will eliminate any possibility of wires coming into contact with fuel lines in the cabin.

AFFECTED PARTS:

- 100-828-4634 (Wing Fuel Vent Line Left Side)
- 100-828-4635 (Wing Fuel Vent Line Right Side)
- 100-820-1138 (Main Wiring Harness)
- 100-621-0108 (Flap Wiring Harness)
- 100-828-4354 (Fuel Line Left Side)
- 100-828-4659 (Fuel Line Right Side)
- 100-820-1138 (Audio Wire Harness)
- K100-5497-900 (Skywatch)

AFFECTED MANUALS AND PUBLICATIONS:

- N/A

FAA APPROVED:

The resultant alteration to the electrical system described in this Service Bulletin has shown compliance with the applicable Federal Aviation Regulations and is FAA Approved.

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MANDATORY SERVICE BULLETIN**NUMBER:** SB-026**REVISION:** A**DATE:** 11/25/2009**SUBJECT:** ELECTRICAL SYSTEM; Main Wiring Harness**COMPLIANCE:**

Cabin Wiring Harness Inspection must be complete on or before the next 100 hr or annual inspection.

INDUSTRY SUPPORT INFORMATION:

N/A

WEIGHT AND BALANCE:

The procedure contained in this Mandatory Service Bulletin does not alter the weight and balance of the aircraft.

MANPOWER:

The instructions contained in this Service Bulletin will take approximately:

- **Inspection/Procedure: 4 hours**

CREDIT and WARRANTY INFORMATION:

N/A

COMPLETION:

Update the KODIAK 100 Maintenance Log Books.

ACCOMPLISHMENT INSTRUCTIONS:

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

MANDATORY SERVICE BULLETIN***MANDATORY SERVICE BULLETIN***

LOG OF CHANGES

Revision:	Date:	Description of Change:
A	11/25/2009	Initial Release

ATTACHED DOCUMENTS

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

SPECIAL SAFETY INSTRUCTIONS

PARTS, TOOLS, AND EQUIPMENT

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

Parts and Tools Included in this Service Kit:

Part Number	Description	Quantity
NAS43DD3-32N	Spacer	4
AN3-7A	Bolt	4
MS21919WDG8	Clamp	3
MS21919WDG6	Clamp	1
MS21044N3	Nut	4
MS21919WDG10	Clamp	2
MS21919WDG5	Clamp	2
If Equipped with Stormscope:		
NAS43DD3-32N	Spacer	1
AN3-7A	Bolt	1
MS21919WDG8	Clamp	2
MS21044N3	Nut	1

Special Tools Required that are Not Provided in this Service Kit:

Tool Name	Tool Duty
N/A	None Required

1. CABIN WIRING HARNESS INSPECTION/PROCEDURE

1.1 CEILING PANEL REMOVAL

Remove the PSU ducts and the Center Ceiling Panel Forward passenger area headliner in accordance with the KODIAK 100 Maintenance Manual.

1.2 LOCATION OF WIRE HARNESSES

Locate the Wing Fuel Vent Line and the Wiring Harnesses indicated in **Figure 1-1**.

NOTE: Figure 1-1 is shown with clamps installed



Figure 1-1: Wiring Harness Locations

1.3 MAIN WIRING HARNESS CLAMP INSTALLATION

1.3.1 Clamp Installation; Main Wiring Harness (Left Side)

Install **Clamp (P/N MS21919WDG8)** around the Main Wiring Harness located on the left side of the Main Cabin and the **Clamp (P/N MS21919WDG8)** around the Wind Fuel Vent Line. Place the **Spacer (P/N NAS43DD3-32N)** in between the clamps and attach with the **Bolt (P/N AN3-7A)** and **Nut (P/N MS21044N3)** as shown in **Figure 1-2**.



Figure 1-2: Left Main Wiring Harness and Wing Fuel Vent Line

1.3.2 Clamp Installation; Main Wiring Harness (Right Side)

Install the **Clamp (P/N MS21919WDG6)** around the Flap Wiring Harness located on the right side of the Main Cabin and **Clamp (P/N MS21919WDG8)** around the Wing Fuel Vent Line. Place the **Spacer (P/N NAS43DD3-32N)** in between the clamps and attach with the **Bolt (P/N AN3-7A)** and **Nut (P/N MS21044N3)** as shown in **Figure 1-3**.

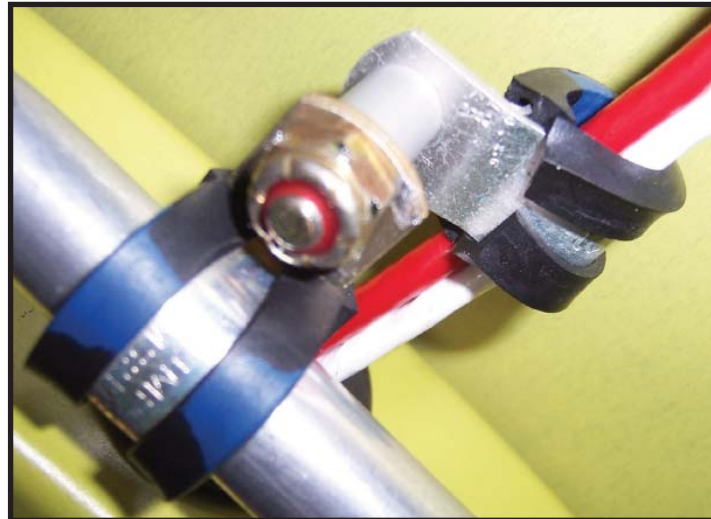


Figure 1-3: Right Main Wiring Harness and Wing Fuel Vent Line

1.4 LOWER INTERIOR PANEL REMOVAL

Remove the first lower interior panels located AFT of both the Pilot and Copilot chairs in accordance with the KODIAK 100 Maintenance Manual.

1.5 LOCATION OF AUDIO WIRE HARNESS

Locate the **Fuel Line** and the #3 Audio Wire Harness as shown in **Figure 1-4 (Left Side)** and the **Fuel Line** and the #4 Audio Wire Harness as shown in **Figure 1-5 (Right Side)**

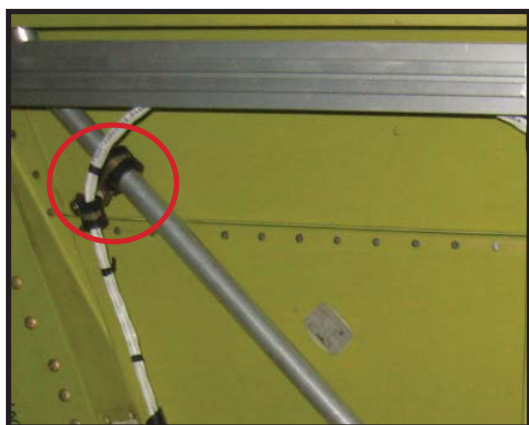


Figure 1-4: Audio Harness Left Side



Figure 1-5: Audio Harness Right Side



NOTE: Figure 1-4 and Figure 1-5 are shown with Clamps installed.

1.6 AUDIO WIRE HARNESS CLAMP INSTALLATION

1.6.1 Clamp Installation; Audio Wire Harness (Left Side)

Install the **Clamp (P/N MS2191WDG5)** on the #3 Audio Wire Harness, and **Clamp (P/N MS2191WDG10)** on the Fuel Line located on the left side of the aircraft. Place the **Spacer (P/N NAS43DD3-32N)** in between the clamps and attach with the **Bolt (P/N AN3-7A)** and **Nut (P/N MS21044N3)** as shown in **Figure 1-6**.



Figure 1-6: Audio Harness Left Side with Clamp Installed

1.6.2 Clamp Installation; Audio Wire Harness (Right Side)

Install the **Clamp (P/N MS2191WDG5)** on the #4 Audio Wire Harness and **Clamp (P/N MS2191WDG10)** on the Fuel Line located on the right side of the aircraft. Place the **Spacer (P/N NAS43DD3-32N)** in between the clamps and attach with the **Bolt (P/NAN3-7A)** and **Nut (P/N MS21044N3)** as shown in **Figure 1-7**.



Figure 1-7: Audio Harness Right Side with Clamp Installed

1.7 CEILING PANEL REINSTALLATION

Reinstall the cabin ceiling panels in accordance with the KODIAK 100 Maintenance Manual.

1.8 LOWER INTERIOR PANEL REINSTALLATION

Reinstall the lower interior panels in accordance with the KODIAK 100 Maintenance Manual.

1.9 LOCATION OF SKYWATCH HARNESS (IF EQUIPPED)

Locate the Wiring for the Skywatch System located near the Main Wiring Harness on the left side of the aircraft as shown in **Figure 1-8**.

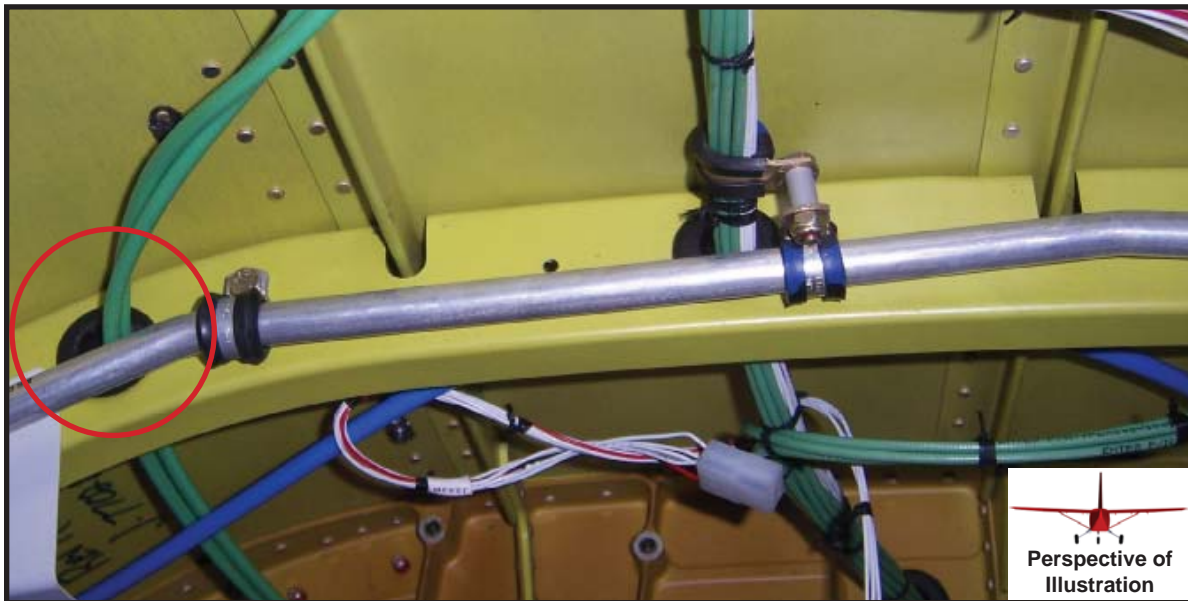


Figure 1-8: Skywatch Harness Location

1.10 SKYWATCH WIRE HARNESS CLAMP INSTALLATION (IF EQUIPPED)

Install the **Clamp (MS21919WDG8)** around the Skywatch Wiring Harness and **Clamp (MS21919WDG8)** around the Wing Fuel Vent Line. Place the **Spacer (NAS43DD3-32N)** in between the clamps and attach with the **Bolt (AN3-7A)** and **Nut (MS21044N3)** as shown in **Figure 1-9**.

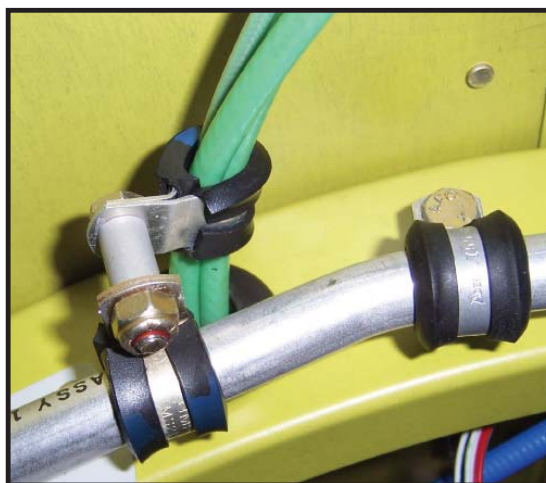


Figure 1-9: Skywatch Wire Harness with Clamp Installed

1.11 ANNOTATE WORK PERFORMED IN KODIAK LOG BOOKS

Upon completion, annotate all work performed in the appropriate KODIAK Log Books.

-----END OF INSTRUCTIONS-----