

MANDATORY SERVICE BULLETIN**NUMBER:** SB11-18**REVISION:** 00**DATE:** Nov 2, 2011**SUBJECT:** PITCH TRIM CABLE INSPECTION PROCEDURES**EFFECTIVITY:**

Quest KODIAK 100 Aircraft Serial Numbers: 100-0003 through 100-0055

SUMMARY:

The accompanying Field Service Instruction provides guidance for inspecting the pitch trim cables to determine if a 1x19 or 7x19 construction cable has been installed on the aircraft.

COMPLIANCE:

This Mandatory Service Bulletin must be complied with on or before the next 100 hour, Annual Inspection, or scheduled maintenance, whichever comes first.

ATTACHED DOCUMENTS:

Document #:	Revision:	Document Title:
FSI-027	00	PITCH TRIM CABLE INSPECTION PROCEDURES

FAA APPROVAL STATUS:

The instructions attached to this Service Bulletin have demonstrated compliance with all applicable Federal Aviation Regulations and are approved by the Federal Aviation Administration.

CREDIT AND WARRANTY INFORMATION:

Quest Aircraft Company will reimburse for the cost of this inspection up to \$42.50. For reimbursement send Quest Aircraft Company a copy of the completed Inspection Record, maintenance record, KODIAK 100 Warranty Claim Form, and an invoice that does not exceed the amount listed above.

Quest Customer Service**Service Bulletin: SB11-18****Phone: (208)263-1111 Toll Free: 1(866)263-1112****Email: Customercare@questaircraft.com****SPECIAL INSTRUCTIONS:**Quest Aircraft Company, LLC
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FIELD SERVICE INSTRUCTION

TITLE: Pitch Trim Cable Inspection Procedures
SERIAL RANGE: 100-0003 through 100-0055
JASC CODE: 2731

PAGE: 1 of 6
REPORT NO.: FSI-027
REVISION: 00

SUBJECT

This Field Service Instruction provides guidance for inspecting the pitch trim cables to determine if a 1x19 or 7x19 construction cable has been installed on the aircraft.

AFFECTED MANUALS AND PUBLICATIONS

N/A

INDUSTRY REFERENCES

N/A

WEIGHT AND BALANCE

N/A

MANPOWER

The estimated manhours and minimum number of persons required to perform this Field Service Instruction are listed below. The “Minimum Persons” refers only to maintenance personnel or installers and, unless otherwise specified within this instruction, does not include additional personnel that may be needed solely to comply with safety requirements (for example, safety observers that are not performing tasks within this instruction). It is the responsibility of maintenance personnel to comply with safety requirements, including having a safety observer available as needed.

Estimated Manhours: 30 minutes

Minimum Persons: 1 person

If more than the minimum personnel perform this instruction, the actual manhours required may be reduced due to increased efficiencies. As appropriate, Quest encourages the use of additional personnel; manhour estimates are based on the minimum personnel required.

RECORD OF COMPLETION

- Update the *Kodiak 100 Maintenance Log Books*

Quest Aircraft Company, LLC
1200 Turbine Drive
Sandpoint, ID 83864



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REVISION RECORD

REV	PAGE	CHANGE DESCRIPTION
00	All	Initial Release



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1. Special Safety Instructions

1.1 Warnings

Failure to comply with “Warnings” contained in this instruction may result in financial loss, significant delay in the completion time, and/or serious injury to personnel.

1.2 Cautions

Failure to comply with “Cautions” contained in this instruction may result in the destruction of components, unnecessary complications, the need to reverse completed work, and/or delays in the completion time.

1.3 Notes

“Notes” are provided when additional information may lead to an increase in efficiency.

2. Parts, Tools, and Equipment

The following tables describe the parts, tools, and equipment necessary to successfully complete this instruction. Where applicable, reference to drawings provided with this instruction is provided.

Table 2-1: Parts and Tools Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

Table 2-2: Consumables Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
N/A	N/A	N/A	N/A	N/A	N/A

1: Consumables may be shipped separately from the primary kit.

Table 2-3: Serial-Number-Specific Parts Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
N/A	N/A	N/A	N/A	N/A	N/A

Table 2-4: Parts and Tools NOT Included in the Service Kit

Item #	Part No.	Qty	Description	Drawing No.	Dwg Item #
2-4-1	Commercially Available	1	Small Flashlight	N/A	N/A
2-4-2	Commercially Available	1	Inspector’s Mirror	N/A	N/A



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3. General

The cabin elevator trim system pulley cables (P/N **100-625-3100**) must be of 7x19 construction. Quest Aircraft Company has received a single report that a 1x19 construction cable was installed onto the elevator trim system. If it is determined that a 1x19 construction cable has been installed, the cable must be replaced.

4. Preparation

The inspection area is located forward of the center pedestal, and the inspection may be conducted from either the pilot or copilot side of the aircraft.

4.1 Clearing the Inspection Area

Move either the pilot or copilot crew seat to the aft most position.

5. Instructions

5.1 Inspection Procedures

Using a flashlight and mirror as needed, inspect both the upper and lower pitch trim cables to determine if the cables are of a 1x19 or 7x19 construction. Refer to **Figure 5-1**.

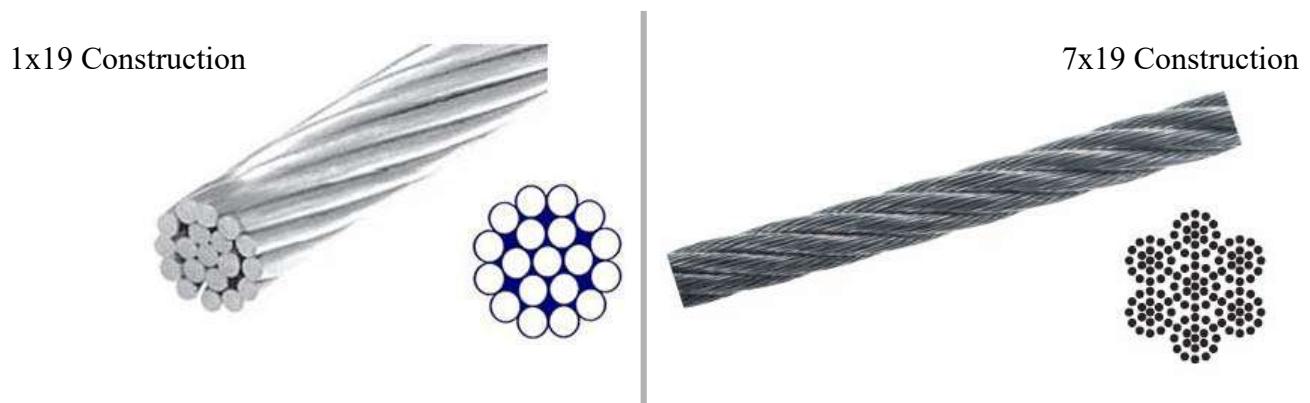


Figure 5-1: Pitch Trim Control Cable Identification

▲ NOTE ▲

To aid in the inspection procedure, the pitch trim wheel may be rotated to adjust the pitch trim cable.

5.1.1 Only 7x19 Construction Cables Found

If both pulley cables are of 7x19 construction, record all inspection results onto the attached *Inspection Report* and proceed to **Section 6**.

5.1.2 1x19 Construction Cable Found

If either pulley cable is determined to be 1x19 construction, the identified cable(s) must be replaced with a new cable (P/N **100-625-3100**).



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5.1.2.1 1x19 Cable Inspection

Move the trim wheel through its full travel, inspecting the cable(s) for binding or fraying. If binding and/or fraying are found, the damaged cable must be replaced prior to the next flight. If no binding and/or fraying are found, replace the 1x19 construction cable within the next 50 flight hours. Record all inspection results onto the attached *Inspection Report* and proceed to **Section 6**.

6. Completion

6.1 Report Inspection Results

Report the results recorded on the *Inspection Report* to Quest Aircraft Company Customer Care:

Quest Customer Service
Field Service Instruction **FSI-027**
Phone: (208)263-1111 Toll Free: 1(866)263-1112
Fax: 208-263-1511
Email: Customercare@questaircraft.com

6.2 Record Work Performed

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

---END---

Inspection Report

Date: _____

Aircraft Serial Number: _____

- Both Cables are 7x19 construction.
- 1 Cable is 1x19 construction and needs to be replaced.
- 2 Cables are 1x19 construction and need to be replaced.

Ship the replacement part(s) to:

Please call to communicate the information in this report. You may also email or fax this report to Quest Aircraft Company. Please include FSI-027 in the subject line or cover sheet.

Quest Customer Service
Field Service Instruction **FSI-027**
Phone: (208)263-1111 Toll Free: 1(866)263-1112
Fax: 208-263-1511
Email: Customercare@questaircraft.com