

## SERVICE LETTER

**NUMBER:** SL-012  
**REVISION:** A  
**DATE:** 7/31/2009

**SUBJECT:** Improvement for Aircraft; Seat Track Station Identification Markings

### SUMMARY

QUEST AIRCRAFT RECOMMENDS THAT EACH OPERATOR EXAMINE THIS SERVICE LETTER IMMEDIATELY.

#### **CONCURRENT REQUIREMENTS**

None

#### **BACKGROUND**

Quest has made available the supplies and equipment to mark the seat tracks with station markers (see **Figure 1**) to assist operators in seat installations and cargo locating.

#### **ACTION**

If desired, follow the given instructions in this Service Letter to apply the etchings onto the seat tracks.



**Figure 1 Station Marker**

#### **EFFECTIVITY**

KODIAK 100 Series Aircraft, Serial Numbers 100-0001 through 100-0019.

#### **COMPLIANCE**

At owner's discretion.

#### **INDUSTRY SUPPORT INFORMATION**

N/A

#### **MANPOWER**

This procedure will take approximately 2 hours to complete and can be done by one individual.

#### **WARRANTY**

This modification is not warranty reimbursable.

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**\*SERVICE LETTER\***

SL-012 Improvement for Aircraft;  
Seat Track Station Identification Markings

## **WORK INSTRUCTIONS**

## 1.1 Overview

This document provides instruction for the seat track etching.

**Estimated Time to Complete:** 2 hours

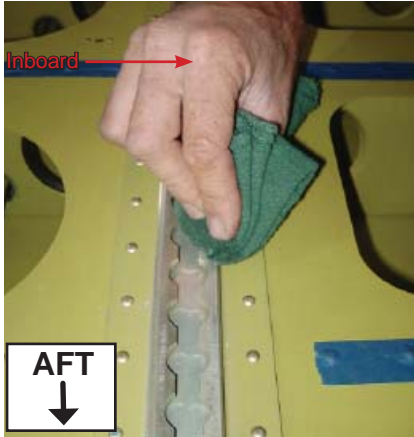


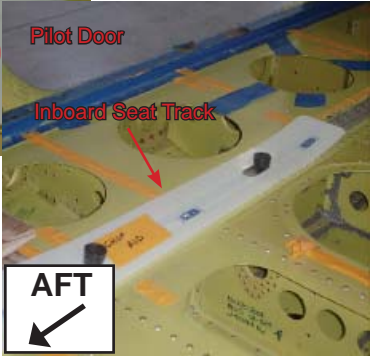
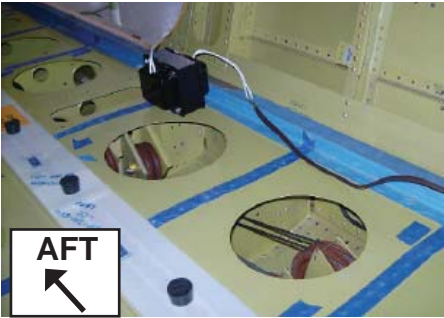
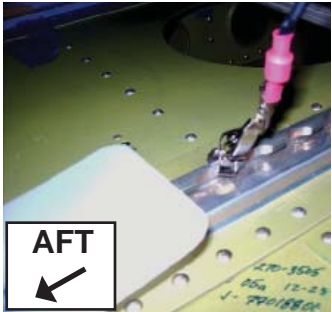
### Parts Included in the Service Kit:

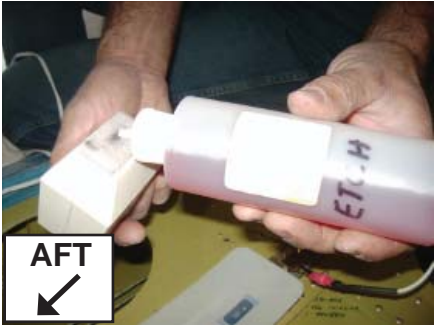
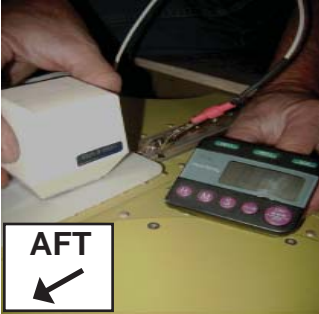
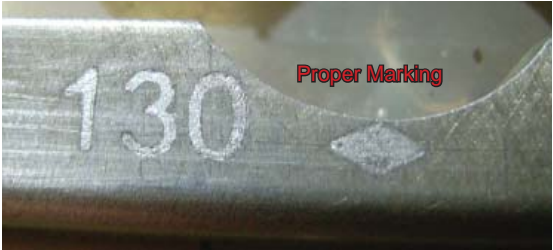
Part Number	Description	Quantity
N/A	SERVICE BULLETIN AND WORK INSTRUCTIONS	1
N/A	Etch-o-Matic™	1
N/A	Liquid Etchant (Pink)	1
N/A	Liquid Neutralizer (Yellow)	1
N/A	Stencils	4
N/A	Rubber Corks	13

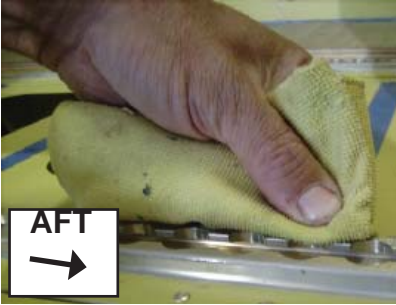
### Tools Required that are not Provided in this Service Kit:

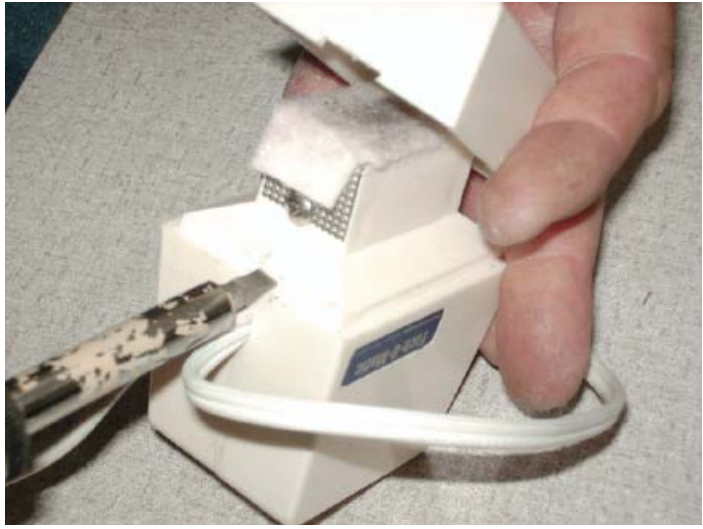
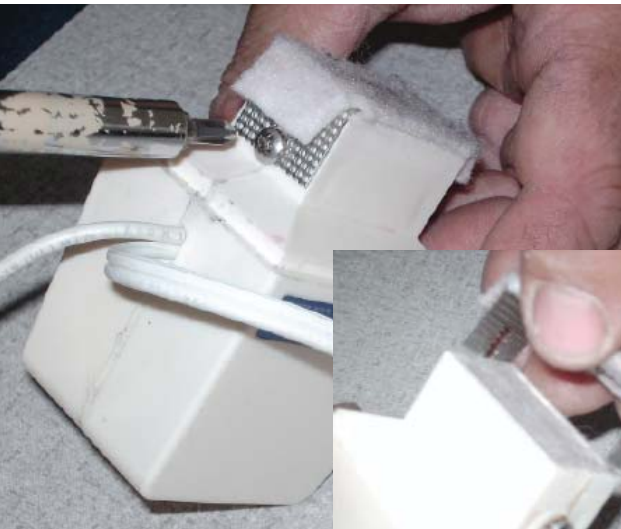

Tool Name	Tool Duty
Alcohol	Clean Seat tracks
3 Rags	For applying etching solution and neutralizer



Task	Instruction	Visual
1	<p>Remove crew and passenger seats using the procedures defined in the KODIAK 100 Maintenance Manual.</p> <p><b>CAUTION:</b> Follow the instructions in this Service Letter very carefully. If the seat tracks are marked incorrectly, the markings are permanent and cannot be reworked. Quest has provided a stencil tool to assist in this procedure. Contact Quest Customer Service for assistance if needed.</p>	
2	<p>Clean the inboard portion of the seat track on both the left and right inboard seat tracks with alcohol solution and rag.</p>	<p>Figure 1</p> 
3	<p>Set up the Seat Track Marking Templates so that they are increasing in number from <b>FS50.0</b> to <b>FS170.0</b> moving aft. Seat Track Marking Templates should overlap one hole. (See Figure 3)</p> <p><b>NOTE:</b> Match the oval seat removal notch at <b>FS54.0</b> on the Seat Track Marking Template with the oval seat removal notch at <b>FS54.0</b> on the seat track near the fire wall. (Figure 2)</p> <p>The templates labeled 01 go on the left side and the templates labeled 02 go on the right side.</p> <p><b>NOTE:</b> Use the black rubber corks to hold the Seat Track Marking Templates in place.</p>	<p>Figure 2</p>  <p>Figure 3</p>  <p>Figure 4</p> 
4	<p>Place the power unit for the Etch-o-Matic™ inside the Cargo Door. (Figure 5)</p> <p>5) Attach the ground from the Etch-o-Matic™ to the seat track near the location of etching. (Figure 6)</p>	<p>Figure 5</p>  <p>Figure 6</p> 

Task	Instruction	Visual
5	<p>Apply the pink etching solution to the felt pad on the Etch-o-Matic™.</p> <p><b>NOTE:</b> Felt pad should be thoroughly wet, but not dripping.</p>	<p>Figure 7</p> 
6	<p>Apply the Etch-o-Matic™ to the first stencil (small blue film). Hold it in position for 20 seconds.</p> <p><b>NOTE:</b> Press down firmly and wiggle slightly for the first few seconds.</p>	<p>Figure 8</p> 
7	<p>Remove immediately after 20 seconds has passed. Remove the adjacent rubber stopper and examine new marking.</p>	 <p>Figure 9</p>
8	<p>Use a rag with the pink etching solution to wipe the new marking and examine for clarity. If the marking is not clear, replace the Seat Track Marking Template and the rubber stopper and re-apply the Etch-o-Matic™ for an additional 5 seconds.</p> <p><b>NOTE:</b> Re-apply only to part of etching that needs to be more clear.</p>	
9	<p>Re-wipe and re-examine the marking to ensure clarity.</p>	
10	<p>Slowly move down the seat track repeating processes 2-9.</p> <p><b>NOTE:</b> Ensure that the power to the Etch-o-Matic™ and the ground remain connected.</p>	
11	<p>Once complete, remove the Seat Track Marking Templates.</p>	

Task	Instruction	Visual
12	<p>Wipe the seat tracks with the yellow neutralizing solution using the third rag.</p> <p>Ensure that the Seat Track Marking Templates are also wiped down with the yellow neutralizing solution.</p>	 <p>Figure 10</p>
13	<p>Repeat processes 2-12 on the opposite side of the aircraft.</p>	
15	<p>Note the work performed in the KODIAK 100 Log Books.</p>	
16	<p>Continue to the next page to see instructions on how to properly clean the Etch-o-Matic™.</p>	

Task	Instruction	Visual
1	<p>Follow the instructions listed in this section to properly clean the Etch-o-Matic™.</p> <p><b>NOTE:</b> It is important that the Etch-o-Matic™ is cleaned, otherwise the acid that is contained in the pink solution will damage the Etch-o-Matic™.</p>	
2	<p>Using a flat screwdriver, pry open the Etch-o-Matic's™ lid, as shown.</p>	<p data-bbox="690 409 771 441"><b>Figure 1</b></p> 
3	<p>Partially unscrew the two philips head screws. The felt should now slide out as shown in <b>Figure 3</b>.</p>	 <p data-bbox="1279 1060 1372 1092"><b>Figure 2</b></p>  <p data-bbox="876 1638 966 1669"><b>Figure 3</b></p>
4	<p>Remove felt pads and clean them thoroughly under water.</p>	
5	<p>Re-assemble the Etch-o-Matic™. Ship the Etch-o-Matic™, templates and solvent back to Quest Aircraft.</p>	