## REVISION LIST

### CHAPTER 15: SEATS AND SEAT BELTS

The following list of revisions will allow you to update the Legacy construction manual chapter listed above.

Under the “Action” column, “R&R” directs you to remove and replace the pages affected by the revision. “Add” directs you to insert the pages shown and “R” to remove the pages.

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Chapter 15: Seats & Seat Belts

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1. INTRODUCTION

The standard Legacy seat belt system is a 3-point harness. It consists of a lap belt and a shoulder harness. The lap belt bolts to a reinforced section of the inboard rib. The shoulder harness secures to a hardpoint in the ceiling of the baggage compartment.

2. PARTS LIST

| #  | PART NO. (P/N) | QTY | DESCRIPTION                  | OPTIONAL ITEM
|----|----------------|-----|------------------------------|---------------
|    |                |     | (not included with kit)      |               |
| Fitting Seat Pan |                     |     | Seat Support, Left Center     | (*) Lancair Avionics |
| 1)  | 4024-01        | 1   | Seat Support, Right Center   | (*) Lancair Avionics |
| 2)  | 4024-02        | 1   | Outboard Seat Support, Left  | (*) Lancair Avionics |
| 3)  | 4027-01        | 1   | Outboard Seat Support, Right | (*) Lancair Avionics |
| 4)  | 4027-02        | 1   | Seat Pan, Left               | (*) Lancair Avionics |
| 5)  | 4033-01        | 1   | Seat Pan, Right              | (*) Lancair Avionics |
| 6)  | 4033-02        | 1   |                              | (*) Lancair Avionics |

Installing Seat Belts

<table>
<thead>
<tr>
<th>#</th>
<th>PART NO. (P/N)</th>
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<tbody>
<tr>
<td>1)</td>
<td>AN6-10A</td>
<td>4</td>
<td>Bolt, Undrilled</td>
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<td>2)</td>
<td>1106-01</td>
<td>2</td>
<td>Lap Belt</td>
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<tr>
<td>3)</td>
<td>AN365-624A</td>
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<td>Nut, Nylock</td>
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<td>4)</td>
<td>MS24694-S199</td>
<td>2</td>
<td>Screw, Machine</td>
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<td>5)</td>
<td>1106-02</td>
<td>2</td>
<td>Shoulder Harness</td>
</tr>
<tr>
<td>6)</td>
<td>AN960-616</td>
<td>16</td>
<td>Washer, Flat</td>
</tr>
</tbody>
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3. CONSTRUCTION PROCEDURES

A. Fitting the Seat Pans

A.1. The seat pans have scribe lines to and in the fitting process. Start by trimming 1/8" outside the scribe lines and custom fit following the instructions.

At the outboard edge allowing for the outboard seat supports and an additional 1/4". This allows for the thickness of the seat support and 1/8" additional clearance.

Cut hole for the control stick passage and adjust later as required for stick clearance.

Allow 1/8" between the seat pan and center console.

Position the seat pan fore/aft by matching the contour of the seat pan to where it fits best to the support of the center console. Note that it should also fit well on the aft and front spars when positioned properly.

• REPEAT FOR RIGHT SIDE •
B. Outboard Seat Supports

B 1. Cleco the seat support to the outboard edge of the seat support. Align the support to the seat pan by matching the contours as best as possible. Two clecoes are sufficient.

B 2. Fit the center seat support by trimming the front and aft to provide clearance for the hydraulic cylinder and the torque tube. Use the seat pan to align the support.

B 3. Fit and trim the outboard support. Start by aligning the seat pan to the three supports. Once aligned, cleco the seat support to the aft closeout rib.

WARNING: DO NOT DRILL CLECO HOLES THROUGH THE SPARS!

B 4. Bond the seat support using approved bonding procedures using epoxy/flox.

Form an epoxy/flox radius.

Support of center console (remainder of console not shown).
C. Center Seat Supports

C 1. With the seat pan and center seat support aligned, drill 2 cleco holes through the seat pan.

C 2. Remove seat pan and turn upside down (don’t remove clecoes yet).

C 3. Apply drops of instant glue. Reinstall and align the seat pan. Weigh down.

C 4. Remove the two clecoes, weight bag and seat pan.

C 5. Drill for approximately 4 clecoes per side.

C 6. Reinstall the seat pan. Drill a hole through the seat pan and the seat support. The hole should be centered on the seat support. Install a K1000-08 nutplate using MSC-32 pop rivets. A screw will be used to secure the seat pan to the seat support.

C 7. Bond the center seat support in place using epoxy/flox following approved bonding procedures.
D. Installing the Seat Belts

Installing Seat Belts
Fig. 15:D:1

Install the seat belts using the hardware shown. Note the slots for the lap belts in the seat supports. Make a similar notch in the seat pans.

- Bolt, AN6-10A (4 pcs.)
- Washer AN960-616 (12 pcs.)
- Locknut AN365-624A (4 pcs.)
- Lap Belt 1106-01 (2 pcs.)
- Shoulder Harness 1106-02 (2 pcs.)
- Machine Screw MS2494-S199 (2 pcs.)
- Washer AN960-616 (4 pcs.)
- Locknut AN365-624A (2 pcs.)
- Seat Support
- Slot for Lap Belt
- 3/8" Ø
- 1-1/2"
Grind the sides of screw flat.

The 3/8" diameter holes are approximately 15" apart. Countersink holes with a 100° countersink.

Apply 1 BID to the outside.

Install the machine screw with epoxy/flox. Cover with 1 BID on the outside.

You must locate the phenolic and verify that you are drilling through the center of the phenolic.

The latch side of the belt typically installs on the inboard as it is easier to tighten. (The outboard hand is typically on the control stick handle whether left or right seat.)