REVISION LIST

CHAPTER 10:CENTER WING SECTION INSTALLATION

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 shows and "R" to remove the pages.

PAGE(S)AFFECTED	REVISION # & DATE	ACTION	DESCRIPTION
10-1 through 10-11 10-12 10-13 through 10-18	0/02-15-02 1/09-18-02 0/02-15-02	None R&R None	Current revision is correct Corrected Figure 10:B:1 Current revision is correct
10-1	3/12-15-04	R&R	Updated table of contents with page nu





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Chapter 10: Center Wing Section Installation

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	A.	Bonding the Center Wing Section	
	B.	Installing Load Pads	
	C.	Installing the Aft Closeout Rib	
	D.	Closing the Center Wing Section	

1. PARTS LIST

#	PART NO. (P/N)		QTY	DE
1)	4025-01	1		Load Pad,
2)	4025-02	1		Load Pad,
3)	4025-03	1		Load Pad A
4)	4025-04	1		Load Pad A
5)	4026-01	1		Load Pad,
6)	4026-02	1		Load Pad,
7)	4200-03	1		Upper Win
8)	4200-04	1		Upper Win
9)	4232-01	1		Load Pad,
10)	4232-02	1		Load Pad,
11)	EVAC-U8	1		Emergency

Note: O (*



ESCRIPTION

OPTIONAL ITEM

(not included with kit)

I, Forward Left I, Forward Right I Access Panel, Left I Access Panel, Right I, Center Left I, Center Right ing Skin, Left Inboard ing Skin, Right Inboard I, Aft left I, Aft Right cy Escape Smoke Hood

**Yes

Optional Parts available through : (*) Lancair Avionics

(**) Kit Components, Inc.

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2. CONSTRUCTION PROCEDURES

Fitting Center Wing Section Fig. 10:A:1

A. Bonding the Center Wing Section

The actual bonding of the center wing section is quick and easy. The time spent is trimming the parts to fit each other. In fitting the parts it is important that you should understand how they should come together so that you can make the judgement as to how much to trim. Note that there are no numbers assigned to the steps you will perform in this section. It is a back and forth fitting and trimming process. This section consists of three (3) parts:

- 1) Fit and trim the parts.
- 2) Final alignment and drilling holes for clecoes.
- 3) The bonding of center wing section.

The fuselage will have to be repetitively raised and lowered for checking and trimming. We suggest a three (3) foot tall saw horse for the purpose of supporting the front end of the fuselage when raised.



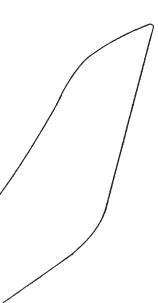
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1) Alo

2) At t

3) At t

4) Alor



The Fuselage and the Center Wing Section Bond

Along the aft edge of the center wing section,

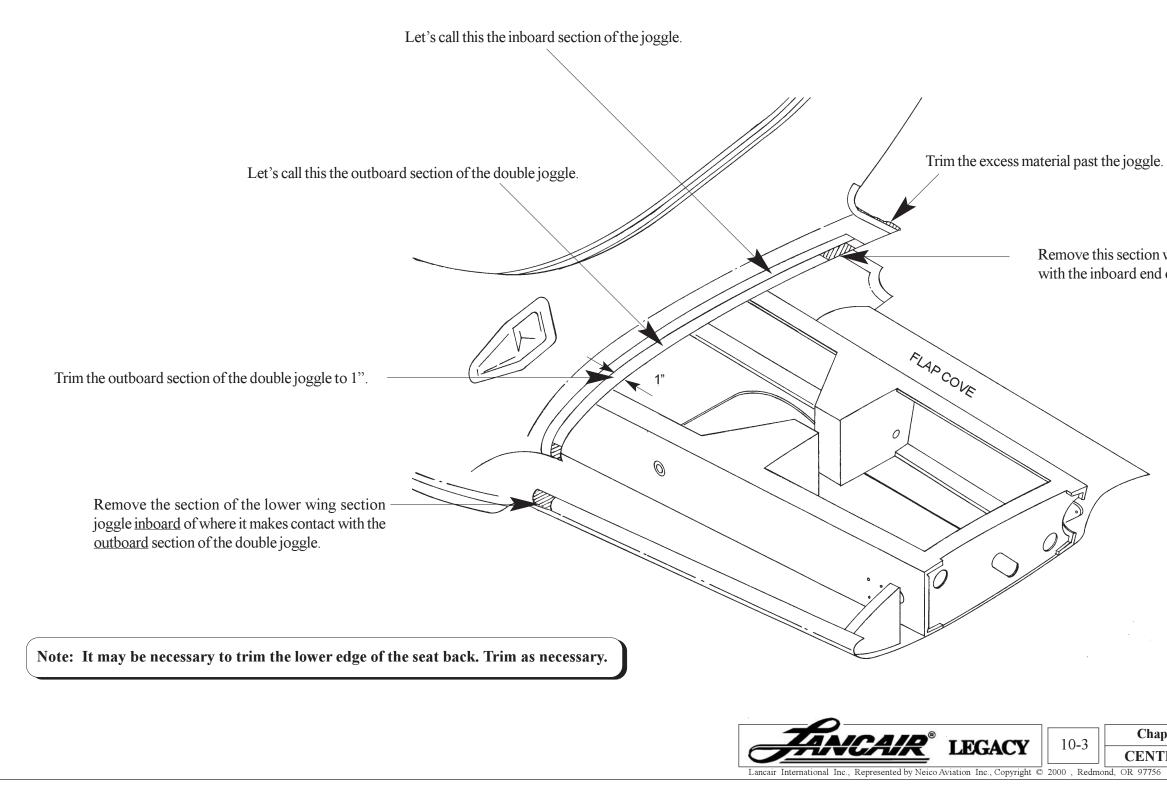
At the aft spar,

At the main spar,

Along the front edge of the center wing section.

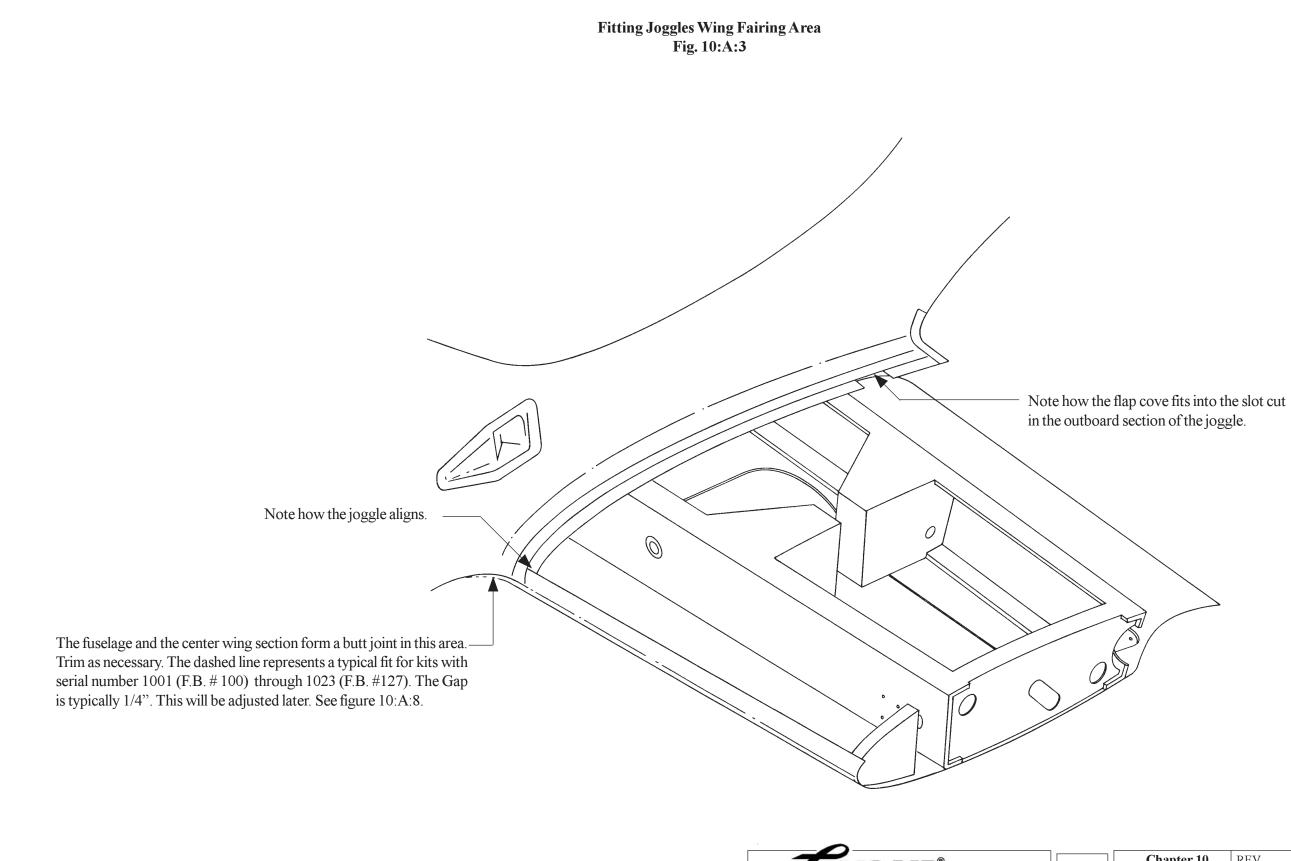
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Trimming Joggles Wing Fillet Area Fig. 10:A:2

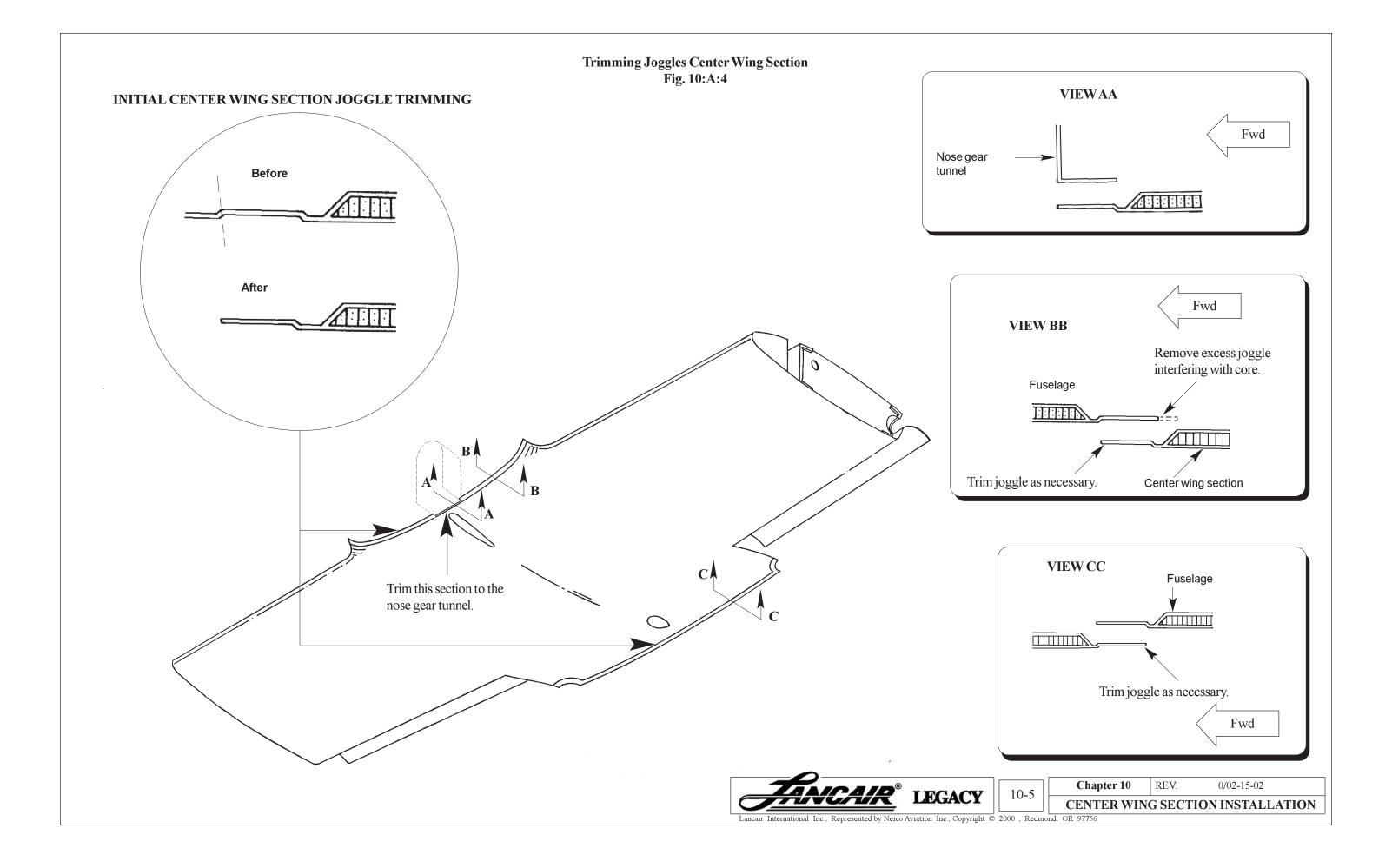


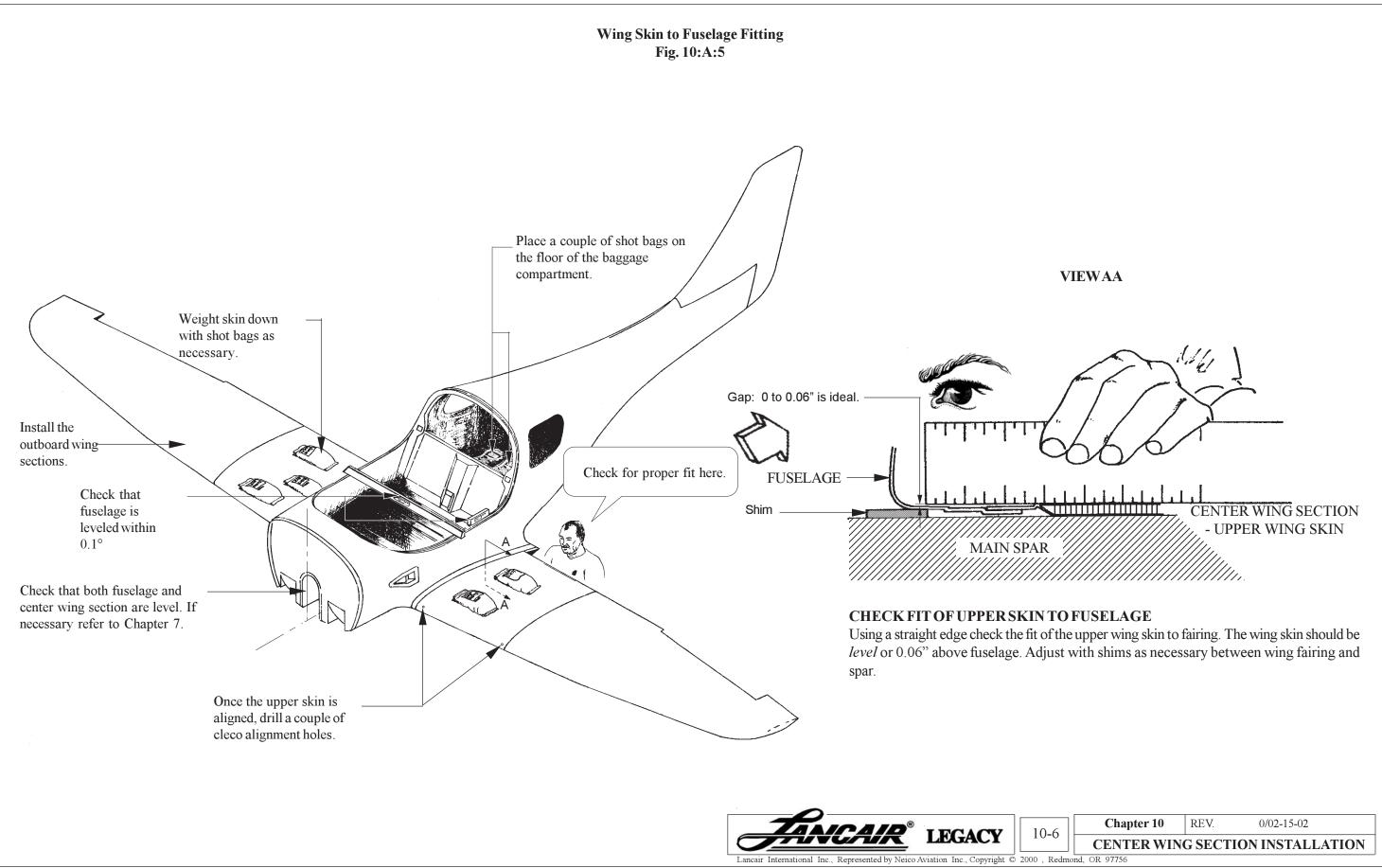
Remove this section where it makes contact with the inboard end of the flap cove.

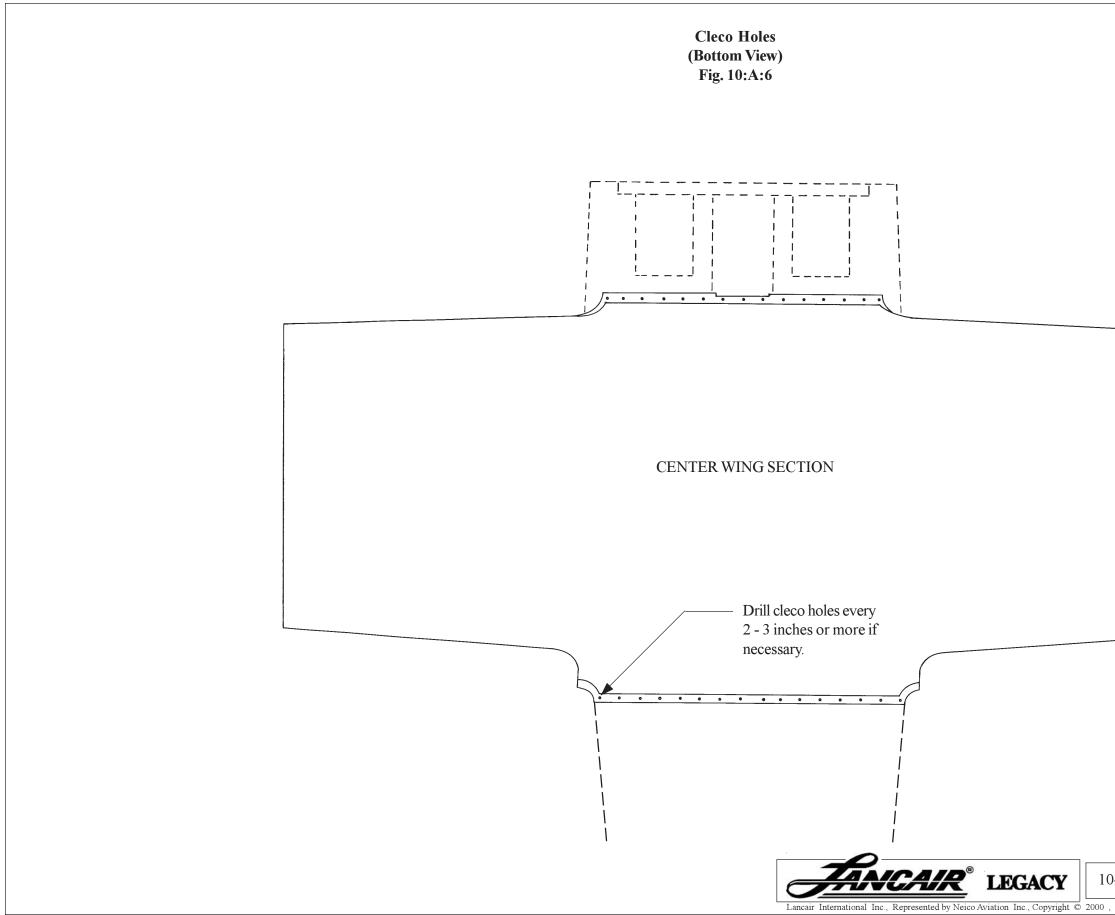
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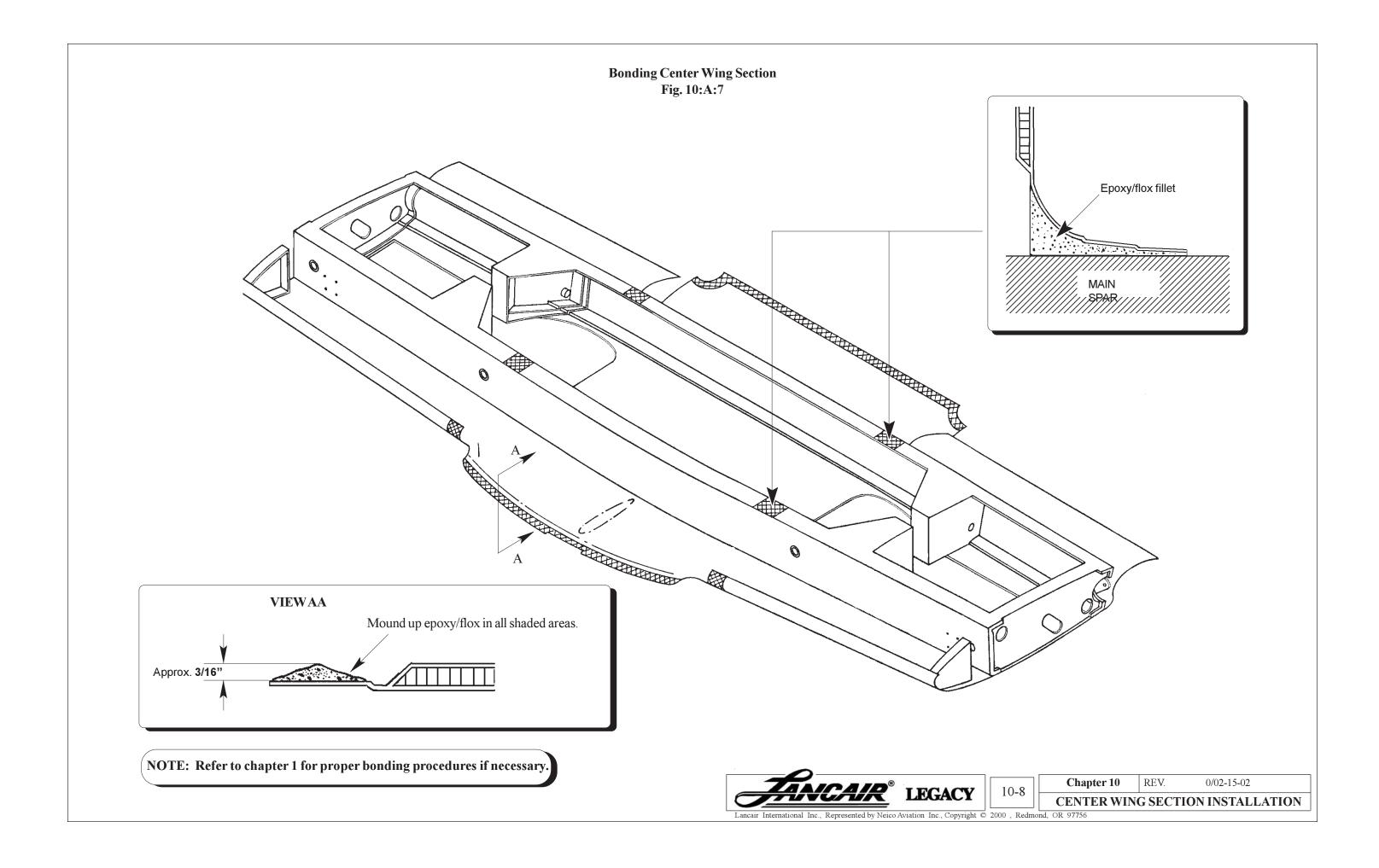
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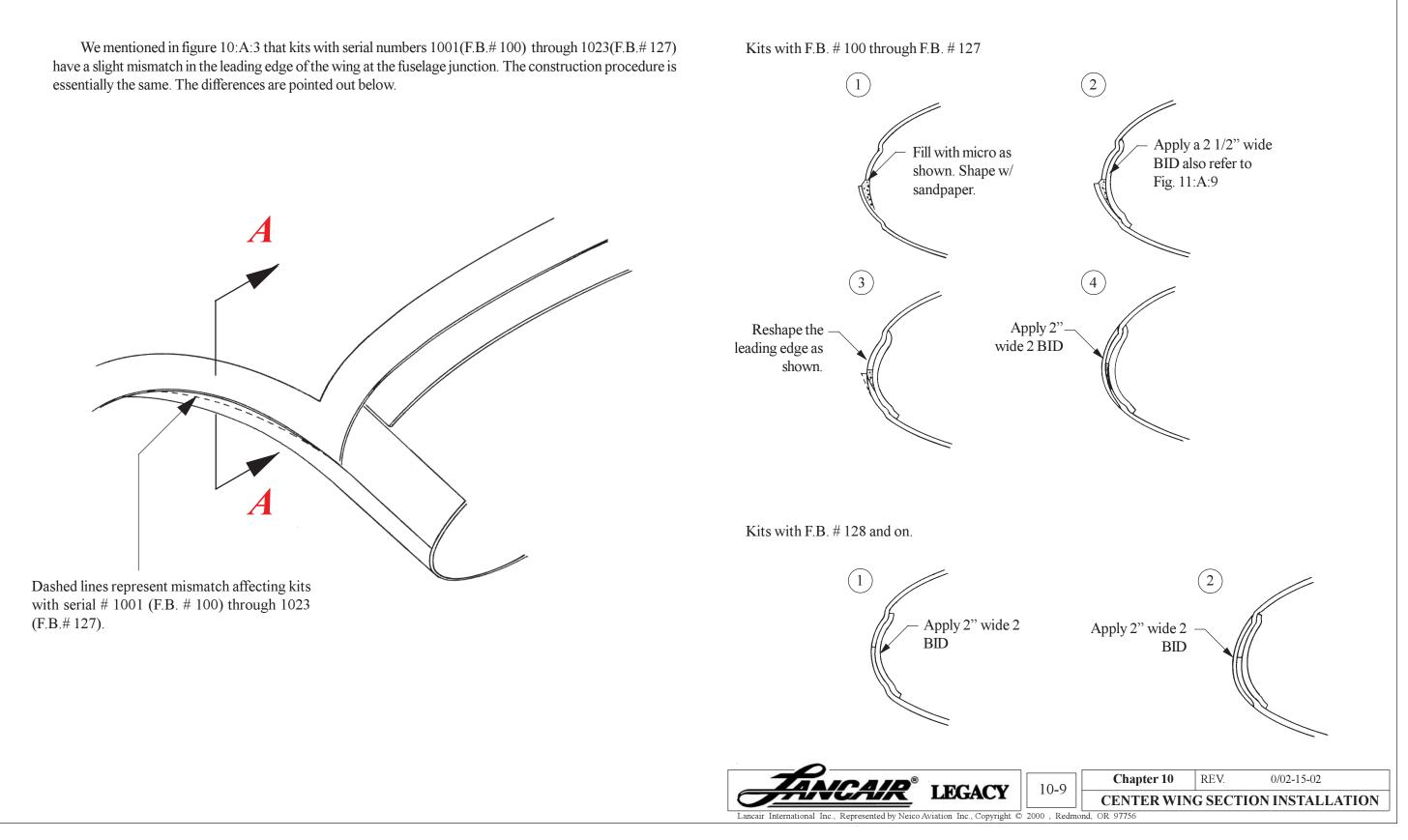


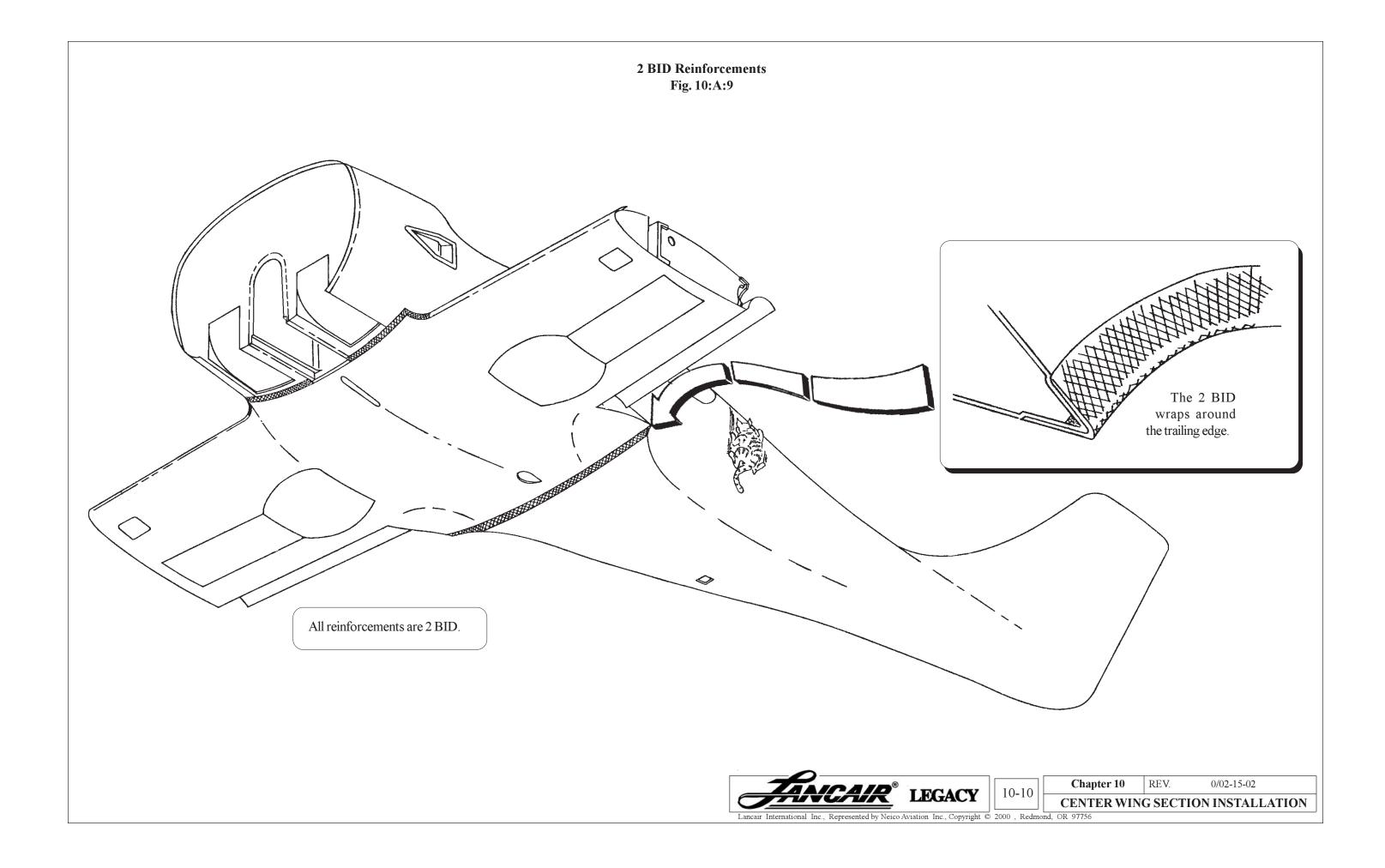


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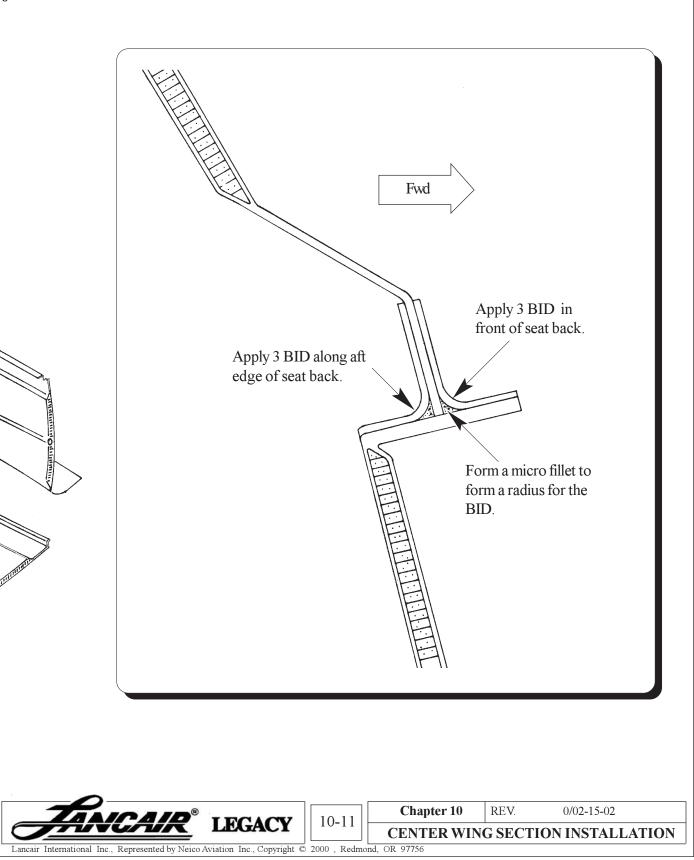


Leading Edge at Fuselage Junction Fig. 10:A:8



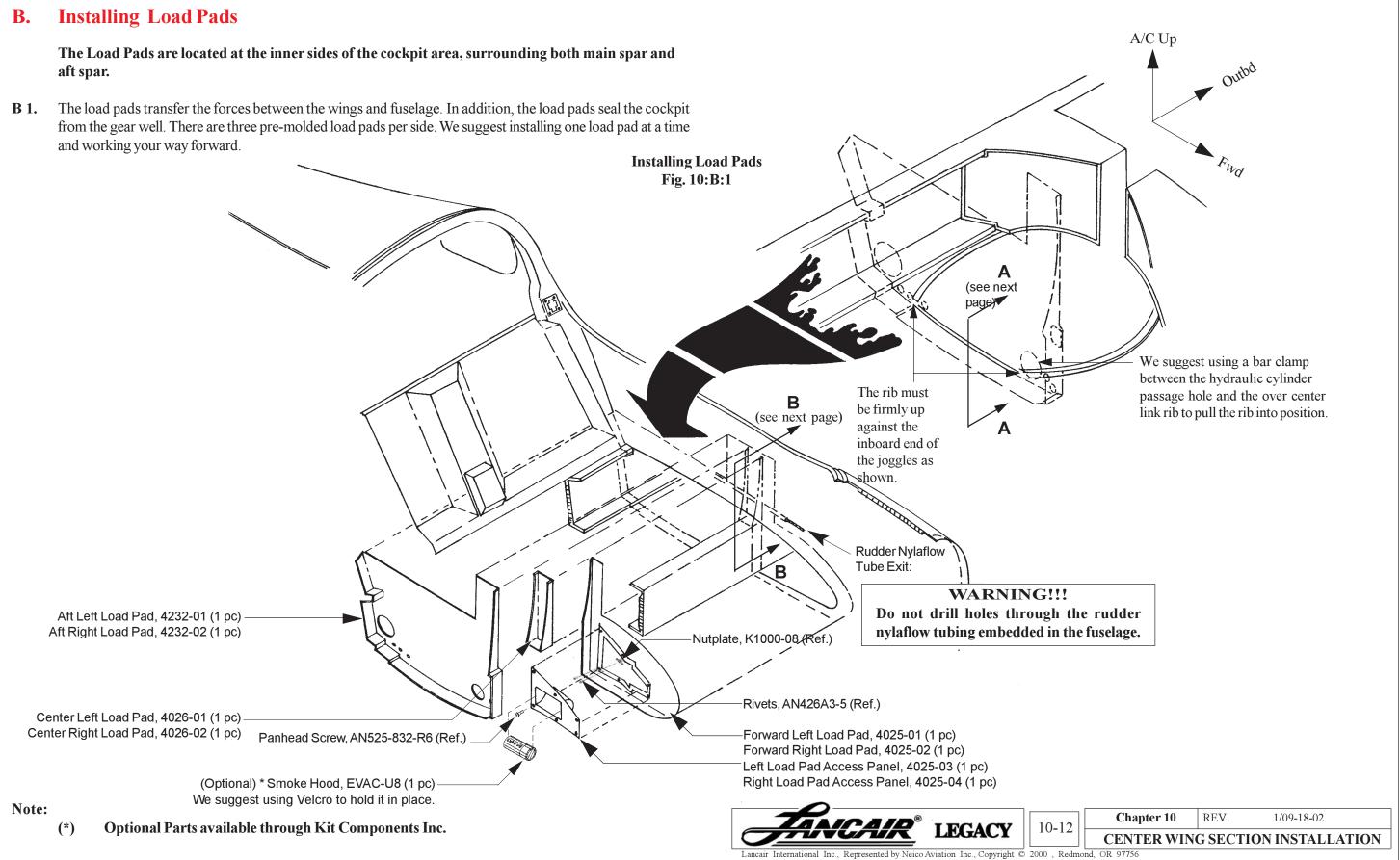


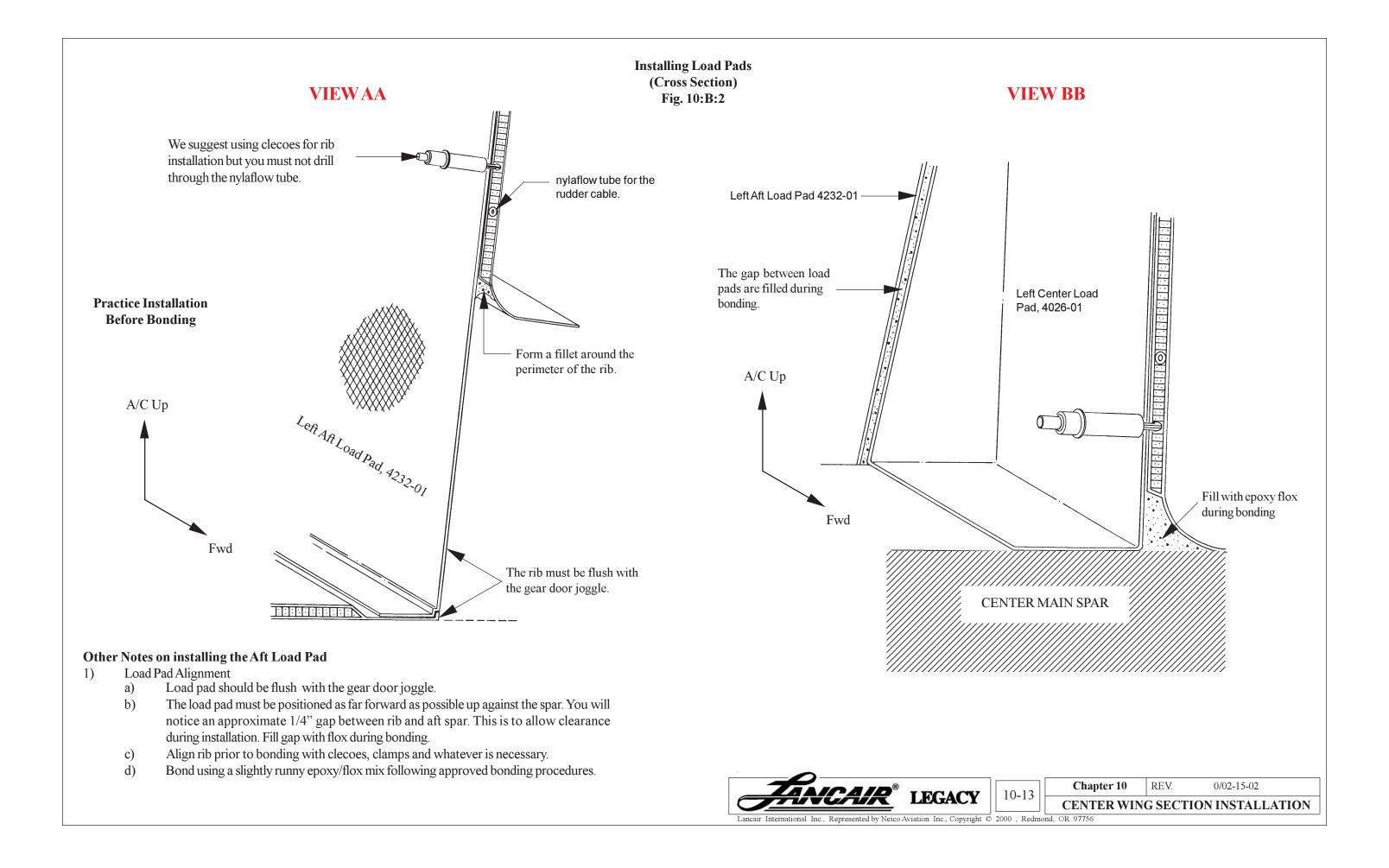
Seat Back BID Reinforcements Fig. 10:A:10 A/C Up Fwd 3 BID securing seat back in front and along the back-

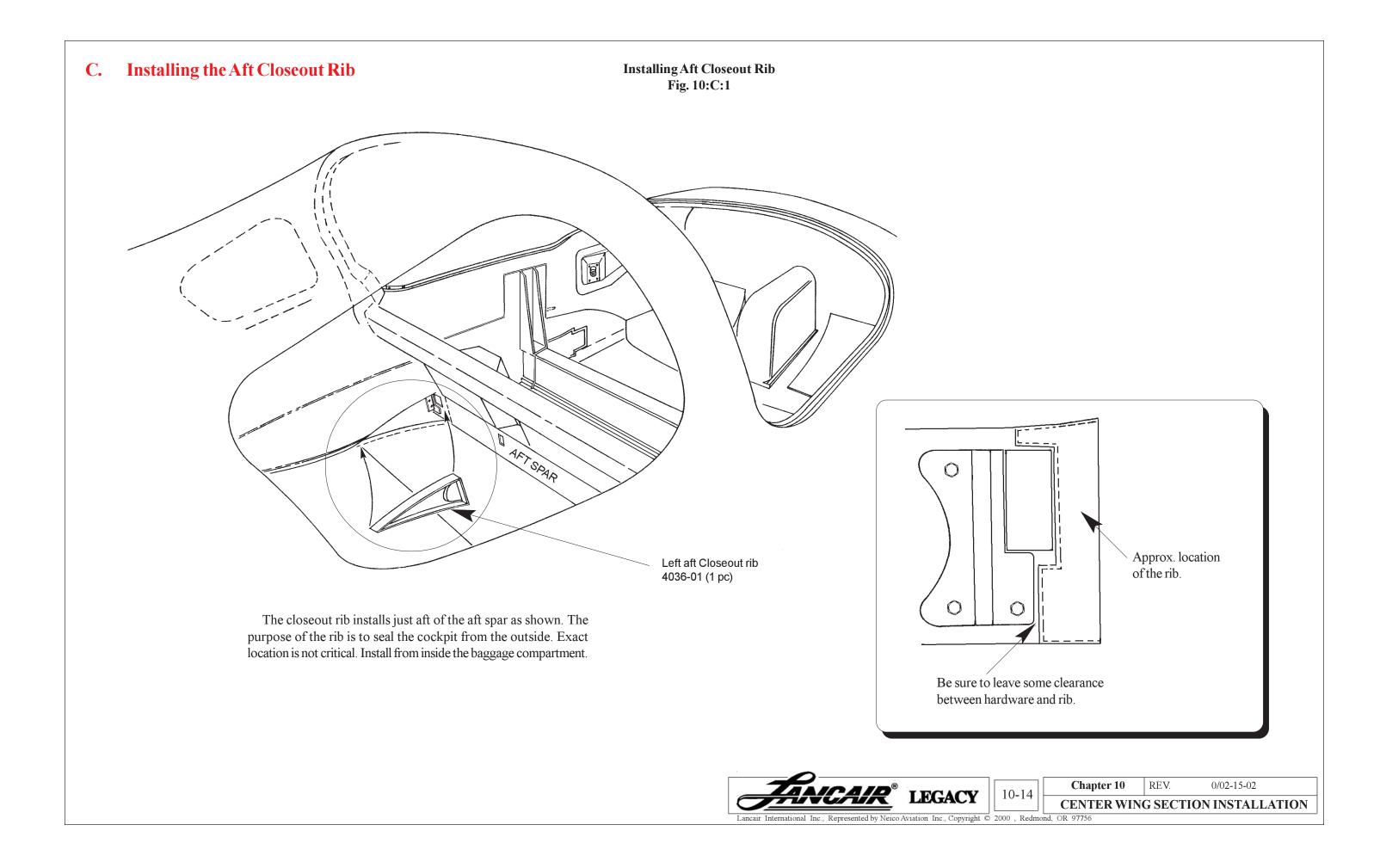


Installing Load Pads

from the gear well. There are three pre-molded load pads per side. We suggest installing one load pad at a time and working your way forward.



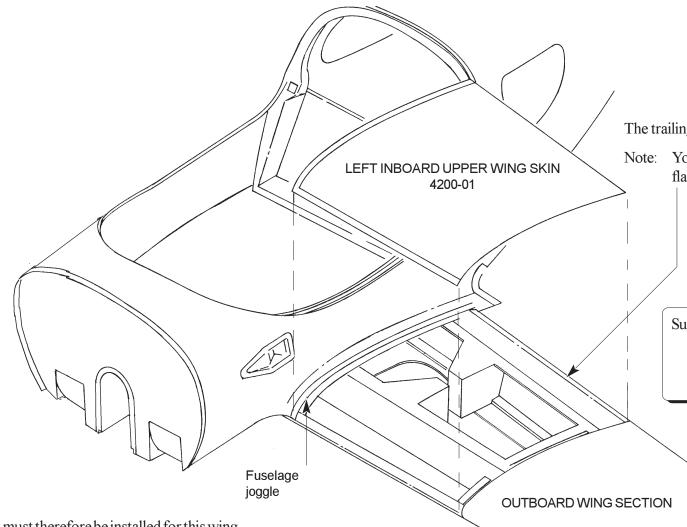




D. Closing the Center Wing Section

Closing Center Wing Section (General Overview) Fig. 10:D:1

In this section you will close the inboard wing sections. Prior to closing out we suggest that you complete all systems of the center wing section (such as landing gear installation, hydraulics and the fuel system.



The inboard wing section is aligned to:

1) The fuselage joggle.

2) The outboard wing section. The outboard wing section must therefore be installed for this wing section. Install the two (2) bolts of the main spars and the one (1) bolt for the aft spar per side for proper alignment.



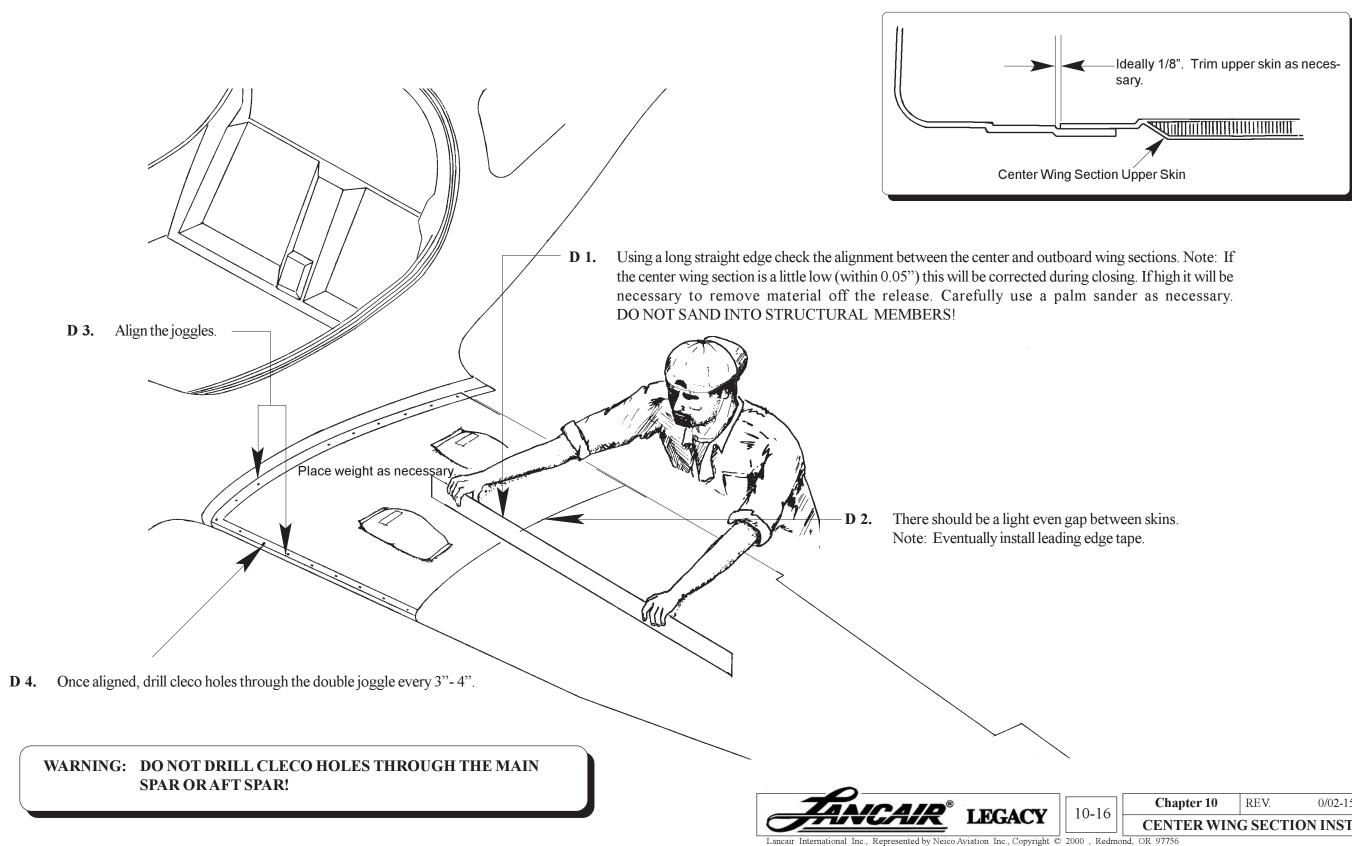
The trailing edge is bonded in chapter 21.

Note: You may bond the trailing edge if you install the flaps and verify the fit as explained in chapter 21.

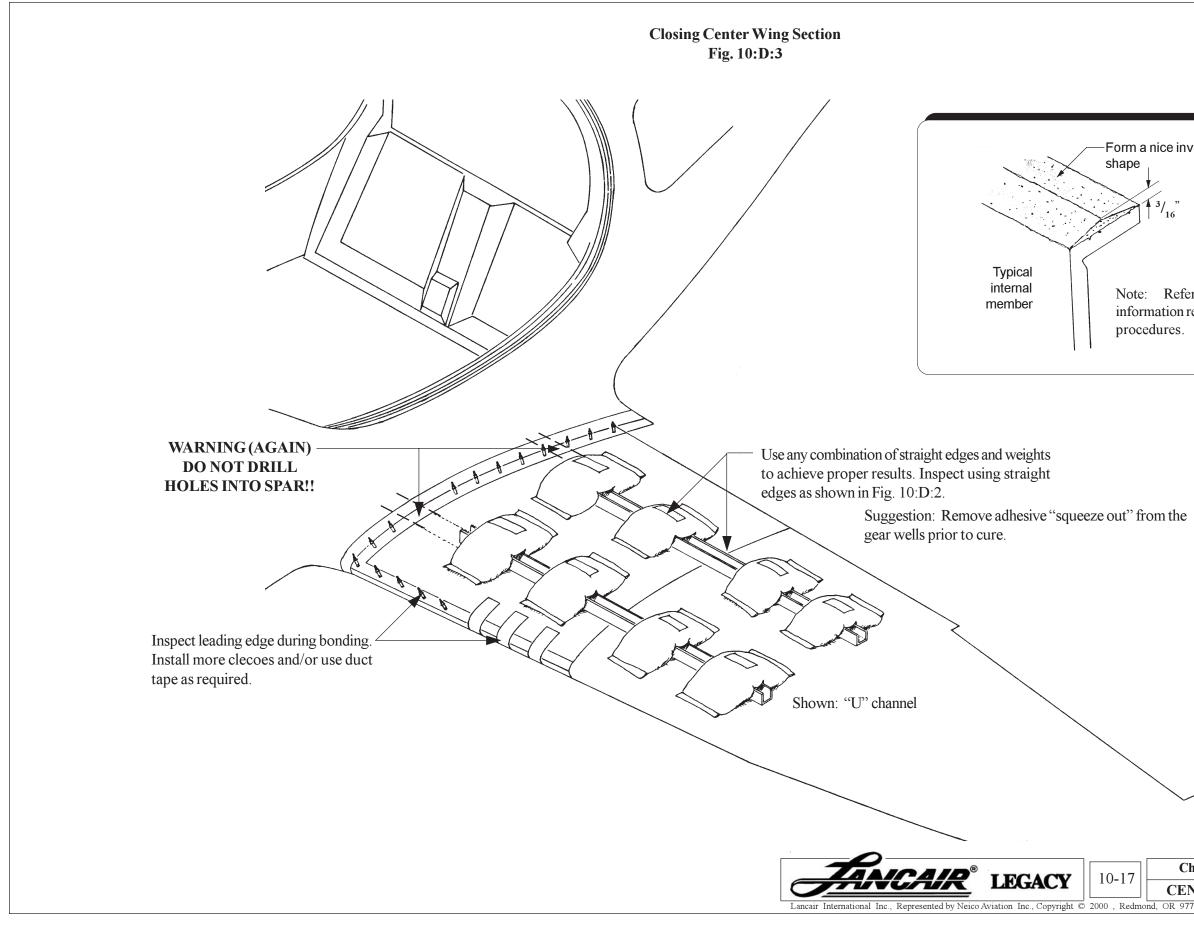
Suggestion: Paint the inside of the gear wells with Jeffco fuel tank sealant (9700-1G). It makes keeping the gear wells clean much easier.

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Aligning Center Upper Wing Section Upper Skins Fig. 10:D:2



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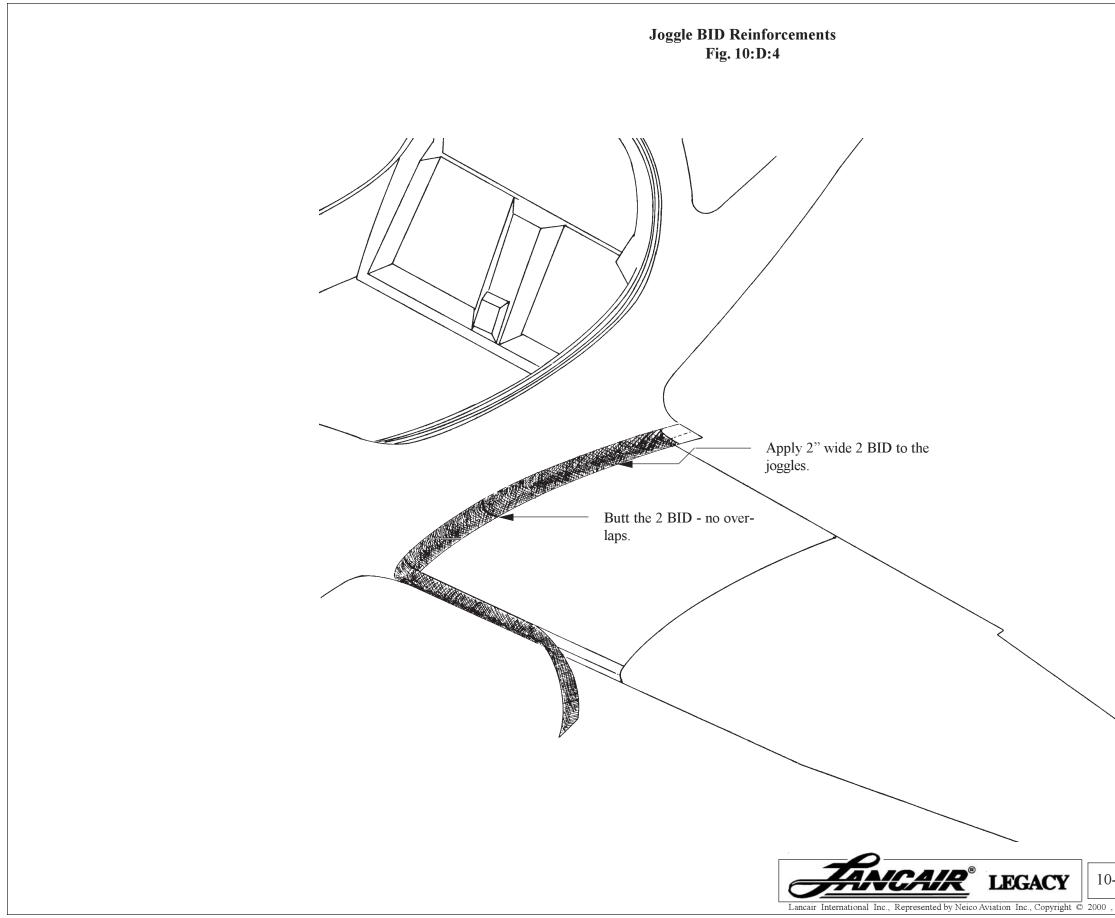


-Form a nice inverted "V" shape

Note: Refer to chapter 8 for more information regarding closing procedures.

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