REVISION LIST

CHAPTER 11: HORIZONTAL TAIL 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	
11-1 through 11-5	0/02-15-02	R&R	Current revision is correct	
11-1	3/12-15-04	R&R	Updated table of contents with page numbers.	



Chapter 11: Horizontal Tail Installation

Contents

1.	Π	INTRODUCTION	11-1
2.	P	PARTS LIST	11-1
3.	C	CONSTRUCTION PROCEDURES	11-2
	A	A. Bonding the Horizontal Stabilizer	11-2
		Trimming the Left Vertical Skin	11-2
		Proper Horizontal Stabilizer Installation during Bonding	11-3
	В	B. Vertical Web Installation	11-5

1. INTRODUCTION

2. PARTS LIST

#	PART NO. (P/N)	QTY	DESCRIPTION	OPTIONAL ITEM
				(not included with kit)
1)	4049	1	Vertical bulkhead	

Note:

Optional Parts available through:

(*) Lancair Avionics

(**) Kit Components, Inc.



11-1

Chapter 11REV.3/12-15-04HORIZONTAL TAIL INSTALLATION

ancair International Inc., Represented by Neico Aviation, Inc., Copyright © 2000, Redmond, OR 97756

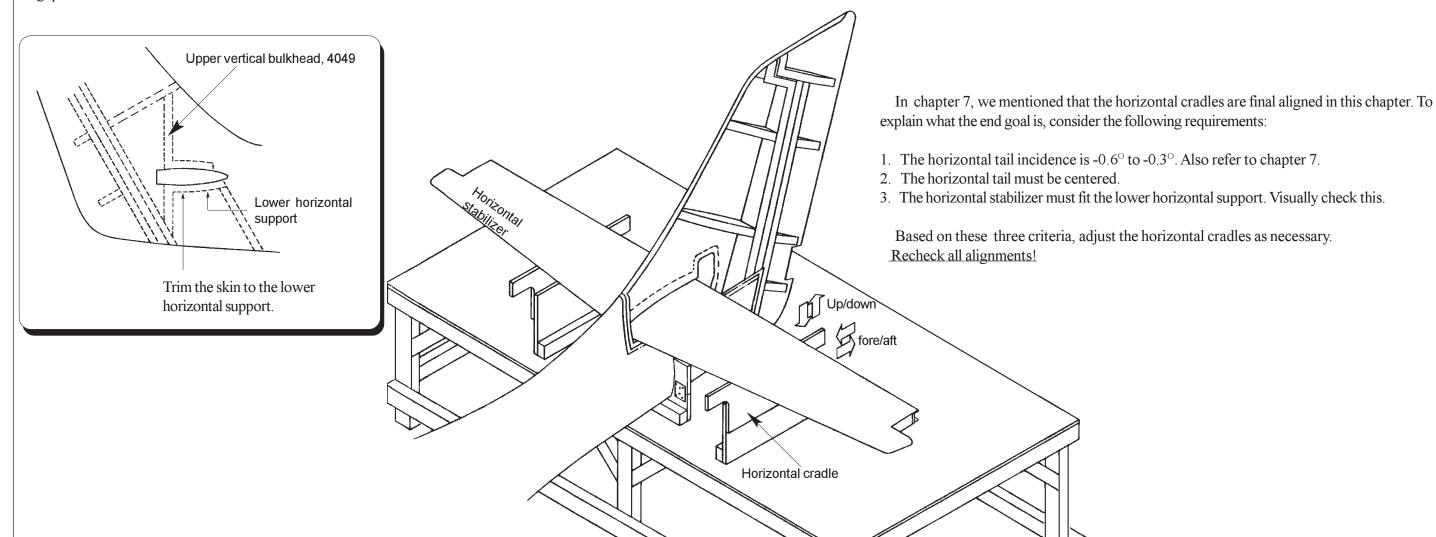
CONSTRUCTION PROCEDURES

Horizontal Tail Alignment Fig. 11:A:1

Bonding the Horizontal Stabilizer

Trimming the Left Vertical Skin

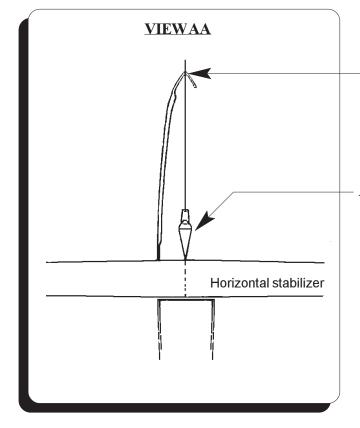
Trim the remainder to fit the horizontal tail. This is a gradual trim and fit process using the horizontal tail. The ideal gap between the vertical and horizontal should be between 0.05" and 1/8".



WARNING: BE SURE TO ESTABLISH WHICHV SIDE IS UPAND DOWN FOR THE HORIZONTAL STABILIZER! ONE EASY WAY TO IDENTIFY THE BOTTOM IS TO LOCATE THE DRAIN HOLE IN THE BOTTOM SKIN.



Centering Horizontal Tail Fig. 11:A:2



Drill a 1/16" dia hole through the center of the joggle for the plumb bob.

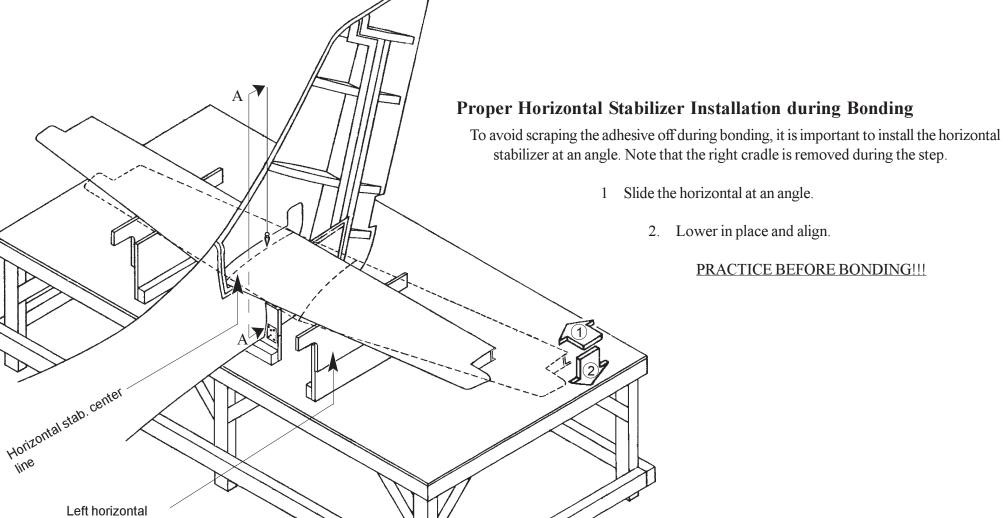
Horizontal Stabilizer Center Line

To properly center the horizontal stabilizer, you need an accurate center line. We suggest that you use the center hinge and transfer a center line onto the upper skin.

Align the horizontal tail to the plumb bob.

cradle

The right horizontal cradle is temporarily removed during horizontal stabilizer installation. We suggest that you use bolts with wing nuts for easy installation during bonding.



PRACTICE BEFORE BONDING!!!

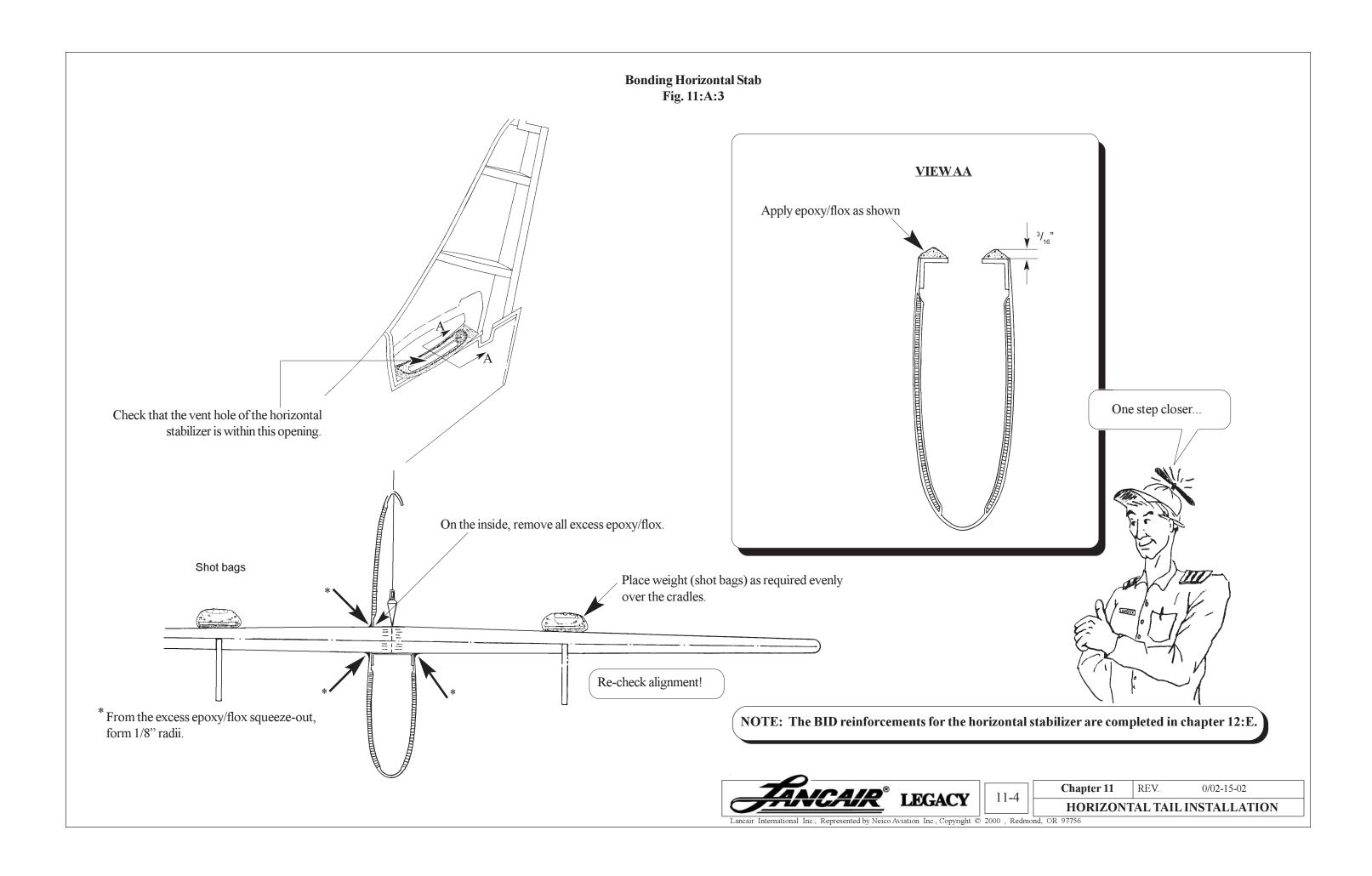
REV.

0/02-15-02

HORIZONTAL TAIL INSTALLATION

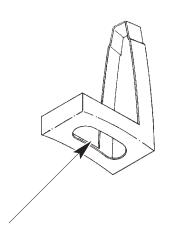
Chapter 11

Cancair International Inc., Represented by Neico Aviation Inc., Copyright © 2000, Redmond, OR 97756



B. Vertical Web Installation

Upper Vertical Bulkhead Installation Fig. 11:B:1

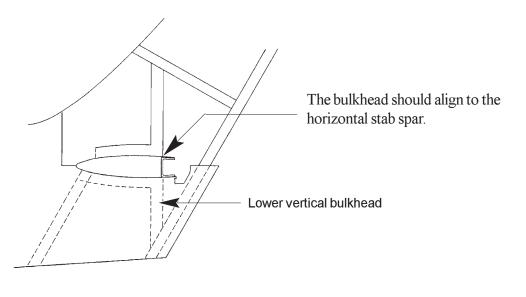


Lower vertical

rib

B 1. Trim the lightening hole to the scribe line. In the bottom of the vertical bulkhead P/N 4049.

Align as explained and use a couple of clecoes drilled into vertical. Don't drill any holes into the horizontal as there is unidirectional carbon fiber in the horizontal.



Bulkhead Alignment

- 1. Align to horizontal stab.
- 2. It should fit nicely into the lower vertical rib.
- 3. Install as close as possible to the right vertical skin (keep the bond to a minimal thickness).

B 2. Bond using epoxy/flox.



11-5

REV.

Chapter 11

0/02-15-02

HORIZONTAL TAIL INSTALLATION

Lancair International Inc., Represented by Neico Aviation Inc., Copyright © 2000, Redmond, OR 97756