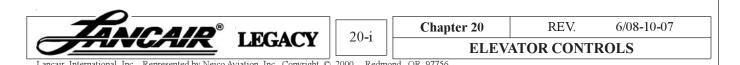
# **REVISION LIST**

# **CHAPTER 20: INSTRUMENT PANEL**

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.

REVISION # & DATE	ACTION	DESCRIPTION	
0/02-15-02 1/09-18-02	None R&R	Current revision is correct Text Correction	
3/12-15-04	R&R	Updated table of contents with page numbers.	
5/05-15-07	R&R	Changed part numbers.	
6/08-10-07	R&R	Changed part numbers only.	
	0/02-15-02 1/09-18-02 3/12-15-04 5/05-15-07	0/02-15-02 None 1/09-18-02 R&R 3/12-15-04 R&R 5/05-15-07 R&R	



## Chapter 20: Instrument Panel

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## 1. INTRODUCTION

The instrument panel is a relatively simple installation. The placement is largely dictated by the center console. The instrument panel is a pre-molded fiberglass piece. The instruments are usually mounted on a removable piece of aluminum (not part of the kit). If you are interested in purchasing the inserts, they are available through Lancair Avionics. You will notice a raised area in the center of the panel typically used to mount the radio stack. A dust cover installs on top of the panel.

In this chapter we will not go into detail about avionics. However, the last section of the chapter offers a few panel layouts. Please contact Lancair Avionics for more information.

#### 2. PARTS LIST

#	PART NO. (P/N)	QTY	DESCRIPTION	OPTIONAL ITEM					
				(not included with kit)					
INSTRUMENT PANEL INSTALLATION									
1)	4028	1	Instrument Panel						
2)	AN3-3A	2	Bolt						
3)	101-0066 35157	2	Bolt, Allen						
4)	K1000-3	4	Nutplate						
5)	AN426A3-5	8	Rivets						
6)	AN960-10	4	Washer						
DUST COVER									
1)	4028-01	1	Instrument Panel Dust Cover						
AVIONICS MOUNTING SHELF									
1)	4943	1	Avionics Mounting Shelf	*Yes,					

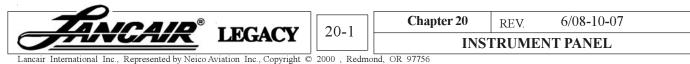
**Contact Lancair Avionics** 

#### Note

**TYPICAL PANELS** 

**Optional Parts available through:** 

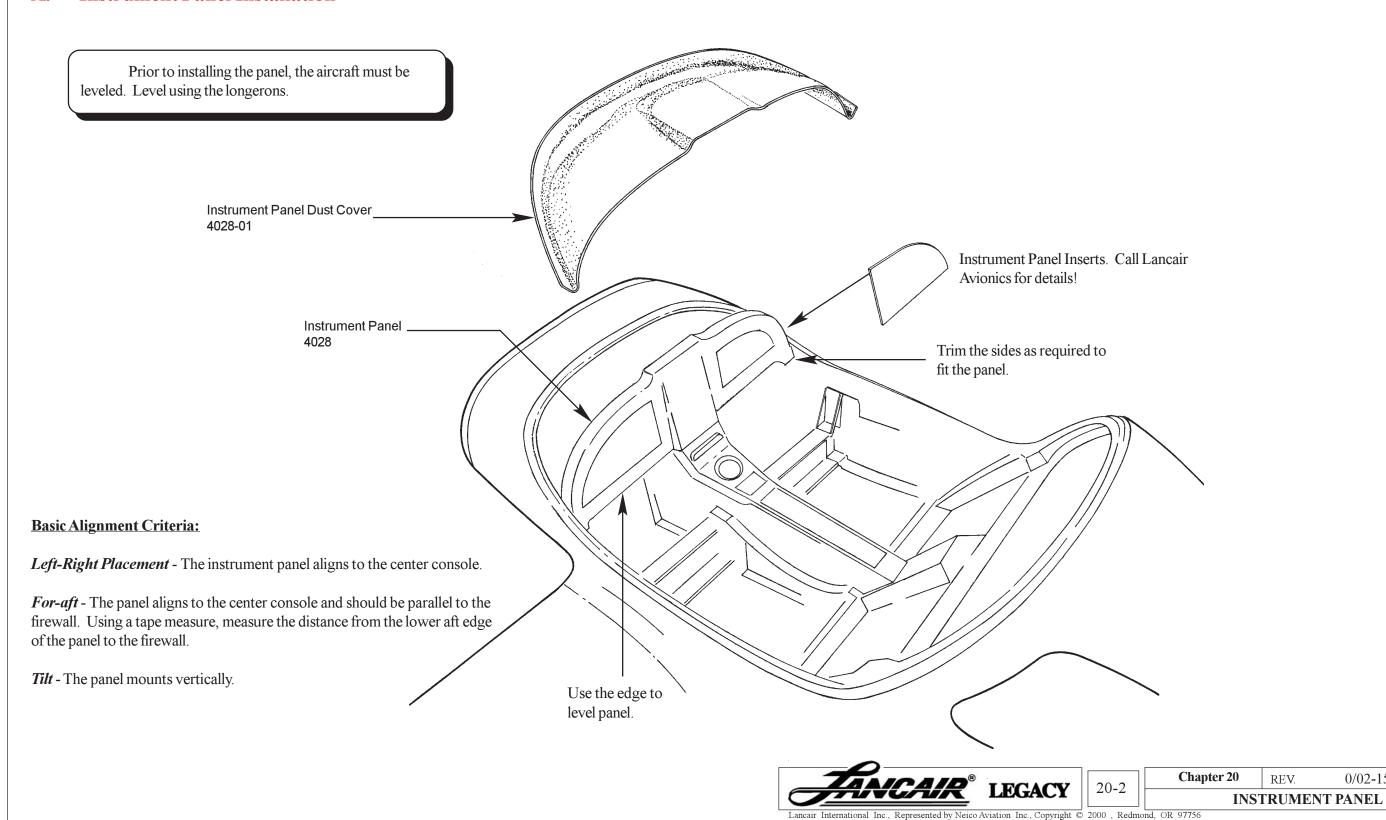
- (\*) Lancair Avionics
- (\*\*) Kit Components, Inc.



## **CONSTRUCTION PROCEDURES**

#### **Instrument Panel Installation (General Overview)** Fig. 20:A:1

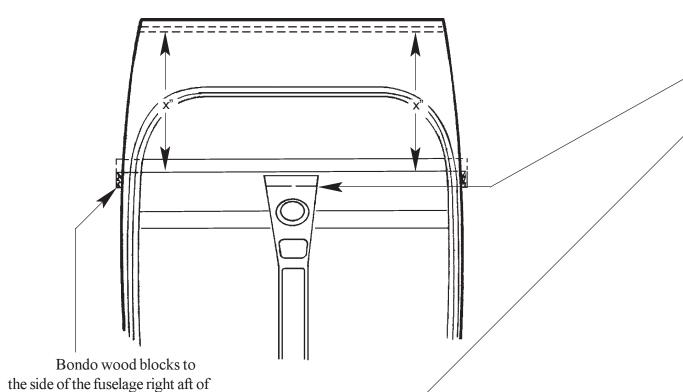
#### **Instrument Panel Installation**



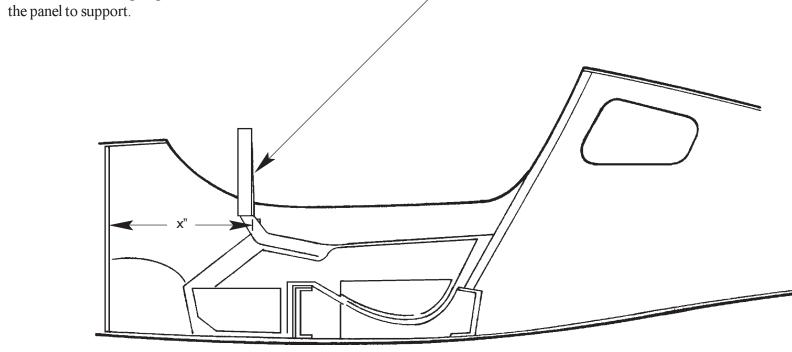
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# Aligning Instrument Panel Fig. 20:A:2

3.



- 1. Align the panel parallel to the firewall. Measure the distance from the firewall to the panel.
- Align the panel to the center console.
- The panel must be vertical.
- Level the instrument panel. The lower left edge of panel must be horizontal (see Fig. 20:A:1). Once aligned, bondo wood blocks to the sides of the fuselage so you can remove the panel and easily realign the panel.

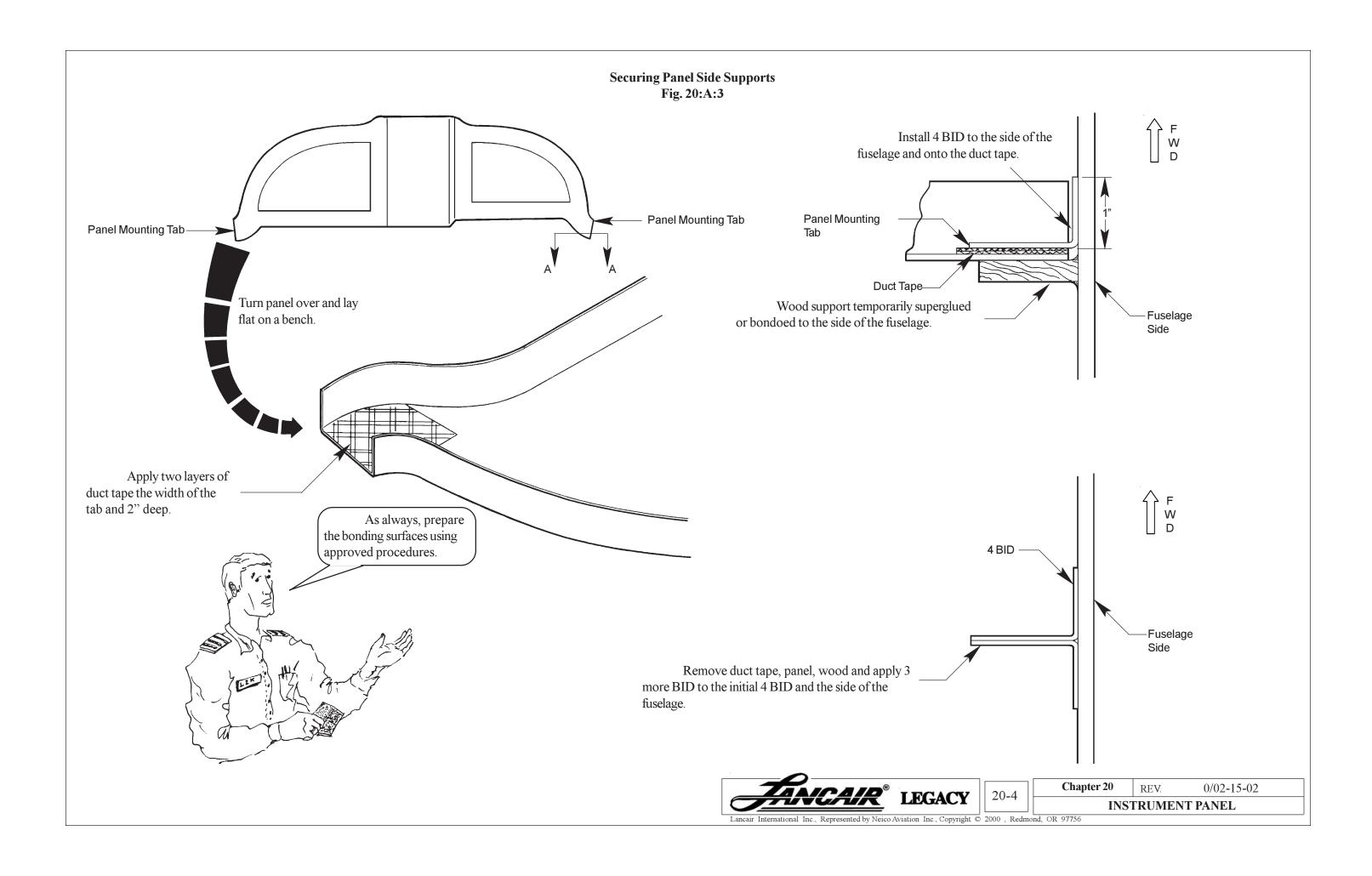


It is very important to level the panel to the aircraft--or your instruments will be off!

20-3

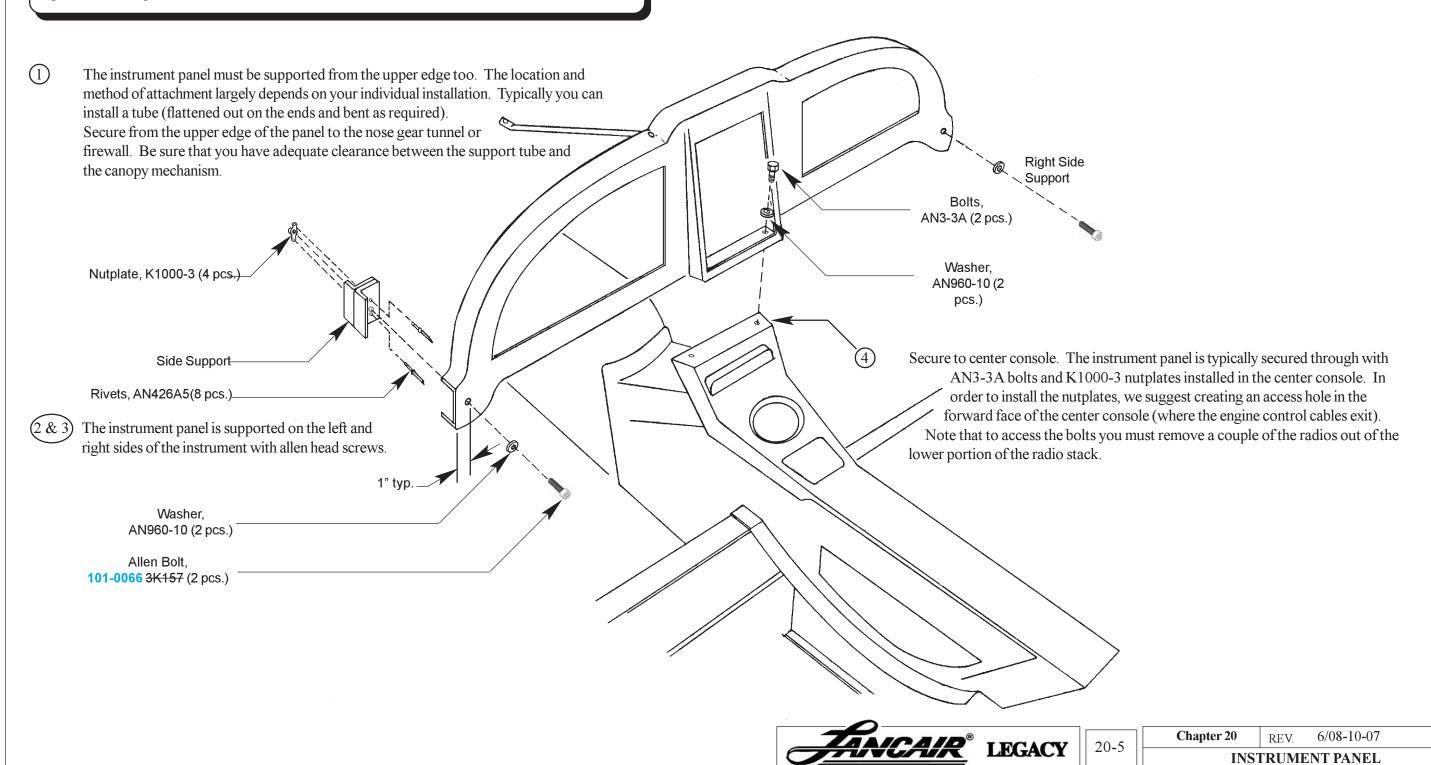
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 INSTRUMENT PANEL



## Securing The Instrument Panel Fig. 20:A:4

The instrument panel is typically secured in four places, from the top of the panel, left and right sides of the panel and to the center console.

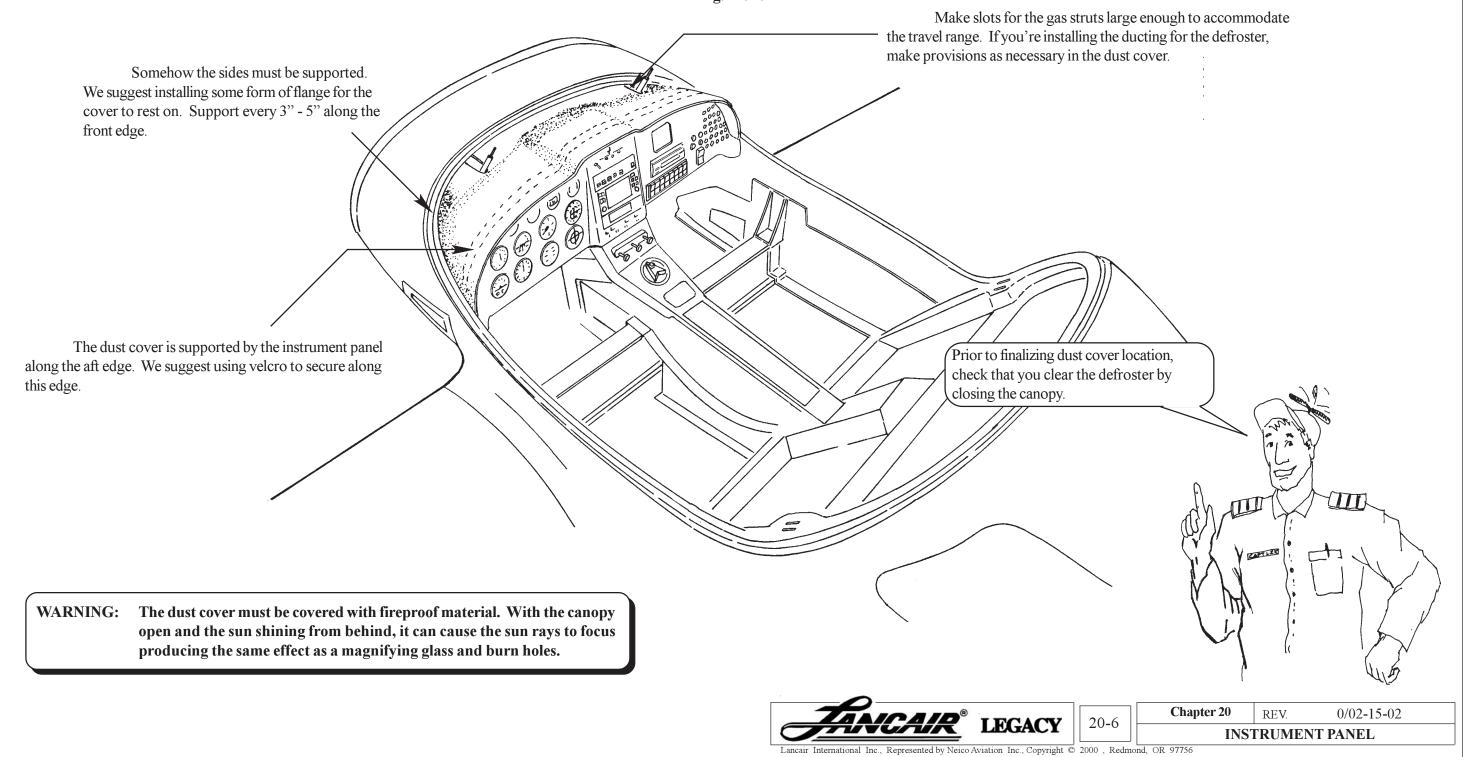


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### **B.** Dust Cover

The instrument panel dust cover is often also called a glare shield. By leaving a lip of approximately 4" over hang, it helps block some of the outside light from reflecting on the instruments. Trim to desired length.

## Installing The Dust Cover Fig. 20:B:1



# **Trimming The Dust Cover** Fig. 20:B:2 Canopy Velcro Trim the dust cover to meet Canopy Dust canopy joggle. Cover We suggest installing 4 BID "hangers" for the dust cover approx. – Instrument Panel every 5". **Trimming the Dust Cover** There are several different methods of attaching the dust cover. We suggest making several small "shelves" for the dust cover to rest on. Use velcro as

Trim the aft edge of the dust cover to preference we like to have at least 4" aft of the panel.

shown.

REV.

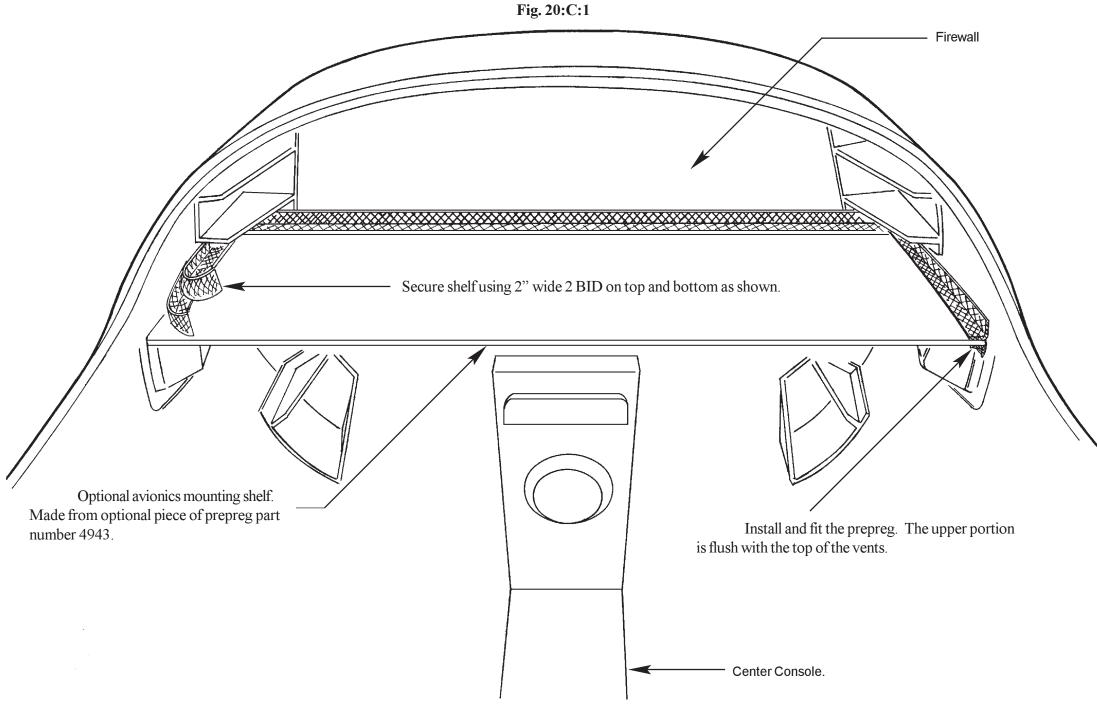
Chapter 20

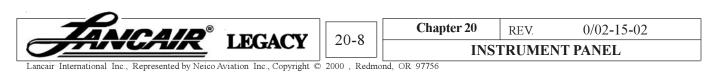
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INSTRUMENT PANEL

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# C. Avionics Mounting Shelf We suggest installing the optional mounting miscellaneous equipment such as VMS DPV, vacuum system filter, backup battery or anything else. Avionics Mounting Shelf Fig. 20:C:1

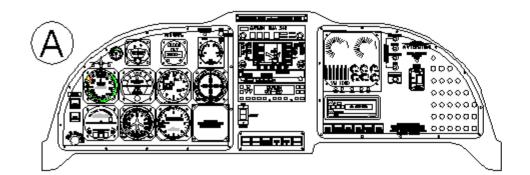


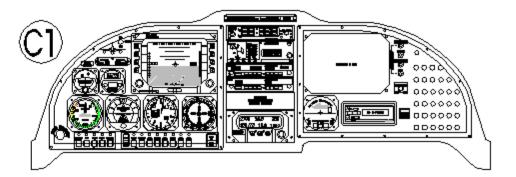


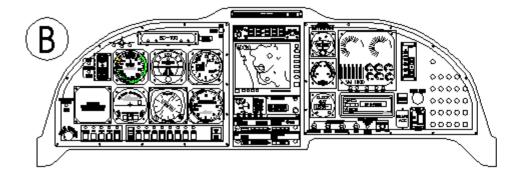
## D. Typical Panels

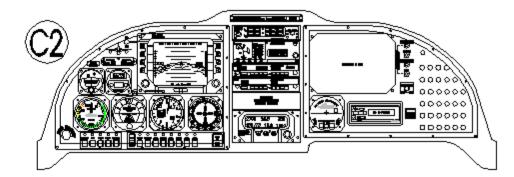
Typical Panels Fig. 20:D:1

For further information on Lancair Avionics instrument panels please see our website at <a href="https://www.lancairavionics.com">www.lancairavionics.com</a> or call Lancair Avionics for details.









Note: The inserts for mounting the instruments are typically 0.09" aluminum. The inserts are not included with the kit. They are typically cut by laser. Custom cut inserts are available through Lancair avionics.

Chapter 20

INSTRUMENT PANEL