

REVISION LIST

CHAPTER 23: BAGGAGE COMPARTMENT

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
23-1 through 23-15	0/02-15-02	None	Current revision is correct
23-1	2/06-30-04	R&R	Updated parts list.
23-6	2/06-30-04	R&R	Updated parts in figure 23:C:1.
23-1	3/12-15-04	R&R	Updated table of contents with page numbers and parts list.
23-3	3/12-15-04	R&R	Updated parts.
23-6	3/12-15-04	R&R	Updated parts.
23-11	3/12-15-04	R&R	Updated parts.
23-1, 23-6	6/08-10-07	R&R	Changed part numbers only.

Chapter 23 Baggage Compartment

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1. INTRODUCTION

The baggage compartment or the area between the aft spar and the baggage bulkhead is also the area for the elevator control tube, flap motor, hydraulics, and wiring. To finish off the baggage compartment we supply a control tube closeout and bulkhead cover.

Optional installations:

The overhead console installs just aft of the rollover closeout. The closeout is tailored to fit head set jacks and lights.

The optional floorboards install between the control tube closeout and the fuselage sides. They provide for a flat surface as well as additional storage room underneath.

Note:

Optional Parts available through :

(*) Lancair Avionics

(**) Kit Components, Inc.

2. PARTS LIST

#	PART NO. (P/N)	QTY	DESCRIPTION	OPTIONAL ITEM (not included with kit)
<u>CONTROL TUBE CLOSEOUT</u>				
1)	4035	1	Control Tube Closeout	
2)	4035-1	1	Control Tube Closeout Top Cover	
3)	4035-2	1	Control Tube Closeout Aft Cover	
4)	K1000-3	7	Nutplate	
5)	K3000-3	4	Nutplate	
6)	MSC-32	22	Rivets	
7)	AN525-10R8	11	Screw, Washer Head	
<u>BULKHEAD COVER</u>				
1)	4041	1	Baggage Bulkhead Cover	
2)	K1000-3	9	Nutplate	
3)	MSC-32	18	Rivets, Pop	
4)	AN526-1032R8	9	Screw, Machine	
5)	AN960-10	9	Washer, Flat	
<u>OVERHEAD CONSOLE (OPTIONAL)</u>				
1)	4030	1	Overhead Console	*Yes
2)	4901-02	1	Overhead Light Retainer Ring .09"	*Yes
3)	4901-01	1	Overhead Console Insert	*Yes
4)	101-0085 92196A192	4	Bolt, Allen	*Yes
5)	MOD1	2	Cabin Light	*Yes
6)	AN365-440A	4	Locknuts	*Yes
7)	K3000-08	4	Nutplates	*Yes
8)	S3989	1	Overhead Light	*Yes
9)	MSC-32	8	Rivets, Pop	*Yes
10)	MS35206-21A	4	Screws	*Yes
11)	AN960-4	4	Washers	*Yes
<u>FLOORBOARDS (OPTIONAL)</u>				
1)	4350-01	1	Left Floorboard, Baggage Compartment	**Yes
2)	4350-02	1	Right Floorboard, Baggage Compartment	**Yes
3)	4351-01	1	Left Aft Access Panel	**Yes
4)	4351-02	1	Right Access Panel	**Yes
5)	4351-03	1	Left Forward Access Panel	**Yes



#	PART NO. (P/N)	QTY	DESCRIPTION	OPTIONAL ITEM (not included with kit)
FLOORBOARDS (CONTINUED)				
6)	MS20001-5	2'	Hinge, Continuous	**Yes
7)	H-5000-2	4	Latch, Hartwell	**Yes
8)	K1000-08	26	Nutplates	**Yes
9)	AN426AD3-4	16	Rivets	**Yes
10)	AN426A3-4	52	Rivets, Aluminum	**Yes
11)	MS24693-S50	26	Screw, Machine	**Yes
OXYGEN SYSTEM (OPTIONAL)				
1)	4932	1	Oxygen System	**Yes

Note:
Optional Parts available through :
 (*) Lancair Avionics
 (**) Kit Components, Inc.



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Chapter 23	REV. 0/02-15-02
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3. CONSTRUCTION PROCEDURES

A. CONTROL TUBE Cover

Control Tube Closeout Access Panels

Figure 23:A:1

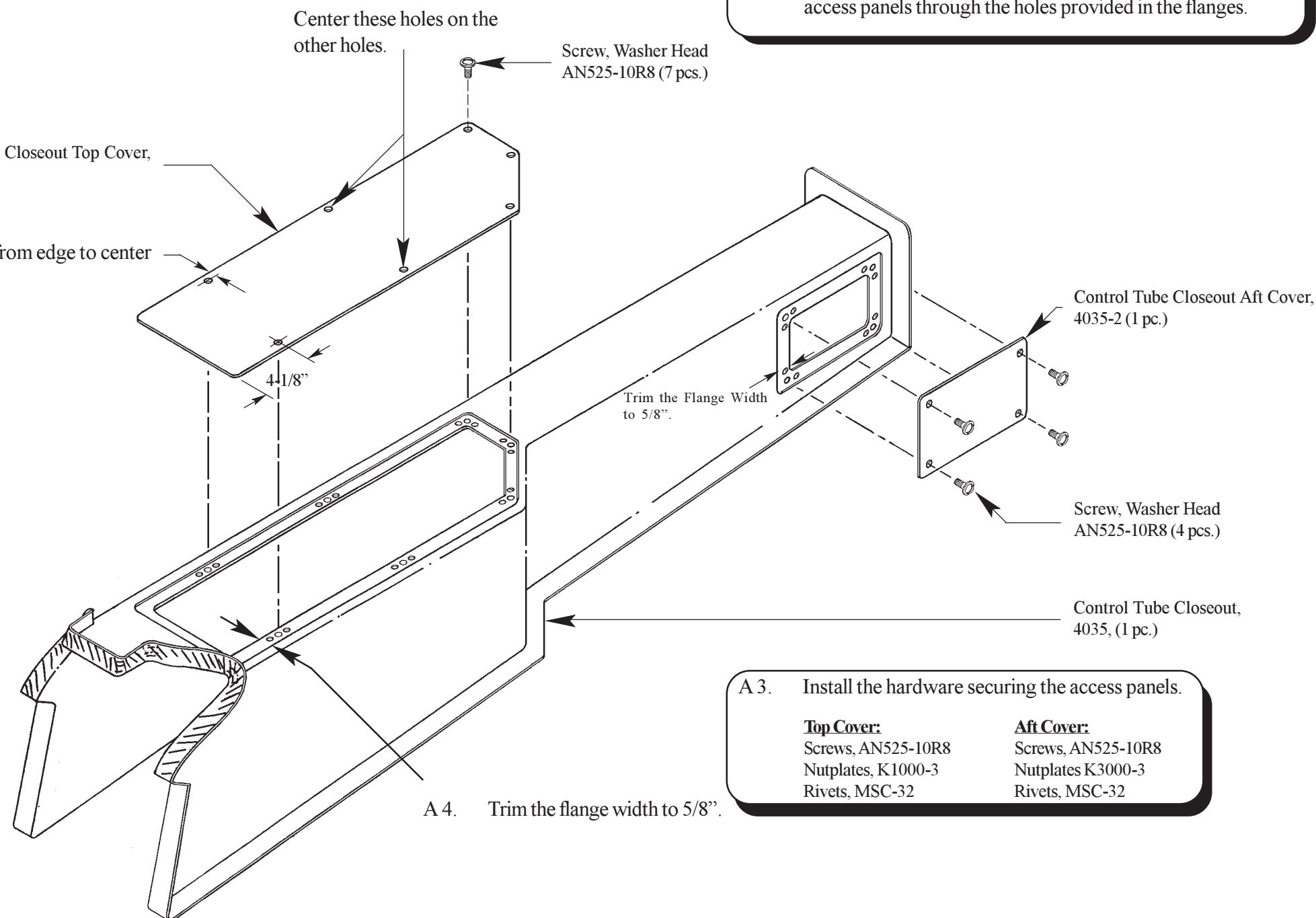
A 1. Fit the access panels to their openings.

A 2. Turn the control tube closeout upside down and backdrill the access panels through the holes provided in the flanges.

Trim the access panels such that you have an even .05" gap between the access panel and the edge of the joggle. Trim the flanges to 5/8"

Note: The reason we don't install the two forward holes of the top cover all the way in the front is because you will not be able to access the holes due to the angle of the seat back.

The control tube closeout isolates the control tube and encloses the hydraulic lines and the flap motor.



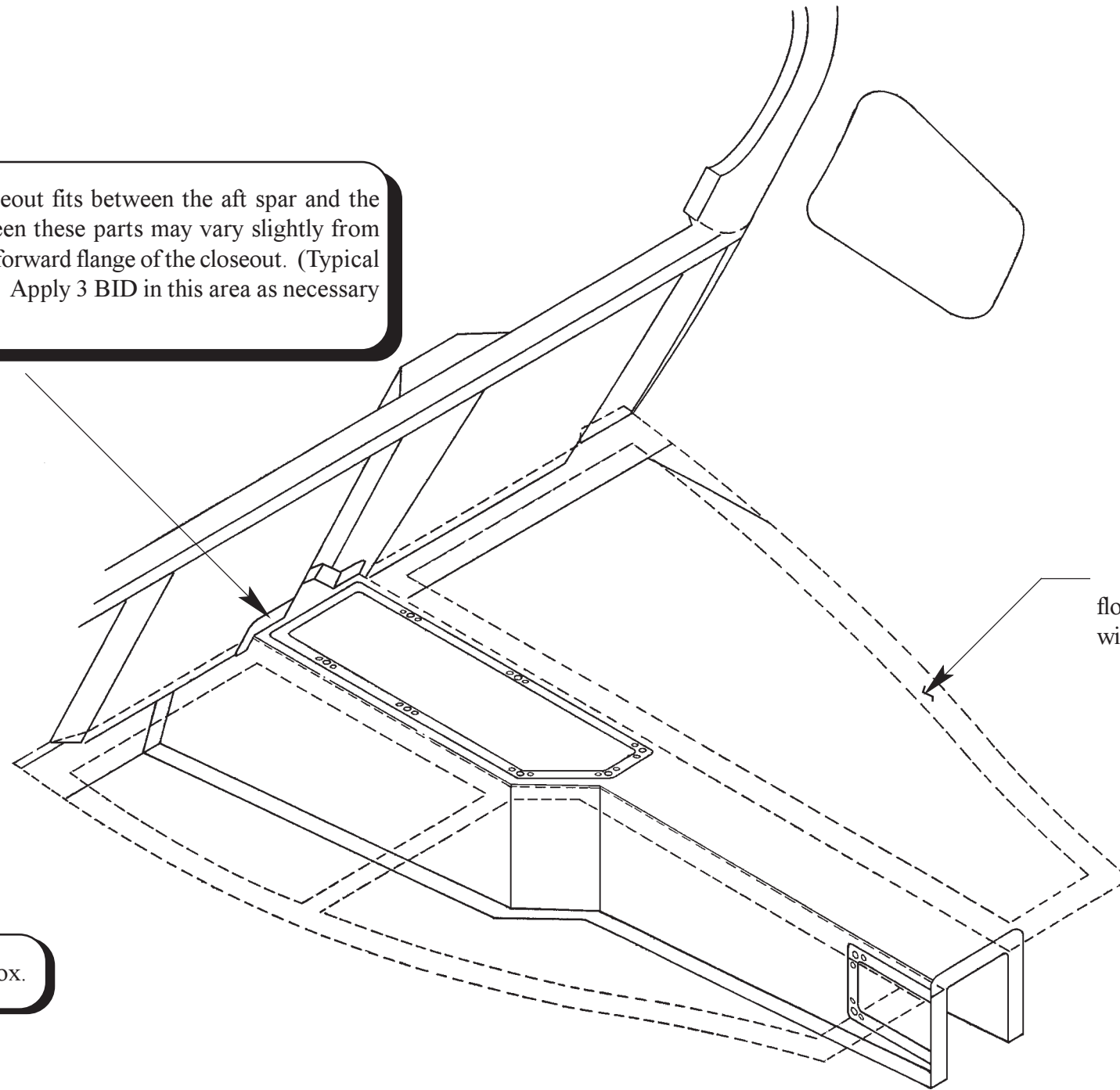
A 3. Install the hardware securing the access panels.

- | | |
|--------------------|--------------------|
| Top Cover: | Aft Cover: |
| Screws, AN525-10R8 | Screws, AN525-10R8 |
| Nutplates, K1000-3 | Nutplates K3000-3 |
| Rivets, MSC-32 | Rivets, MSC-32 |

A 4. Trim the flange width to 5/8"

Control Tube Closeout Installation
Figure 23:A:2

A 5. Fit the control tube closeout. The closeout fits between the aft spar and the baggage bulkhead. The distance between these parts may vary slightly from aircraft to aircraft. As necessary trim the forward flange of the closeout. (Typical trimming shown shaded in Fig. 24:A:1). Apply 3 BID in this area as necessary after bonding console in.



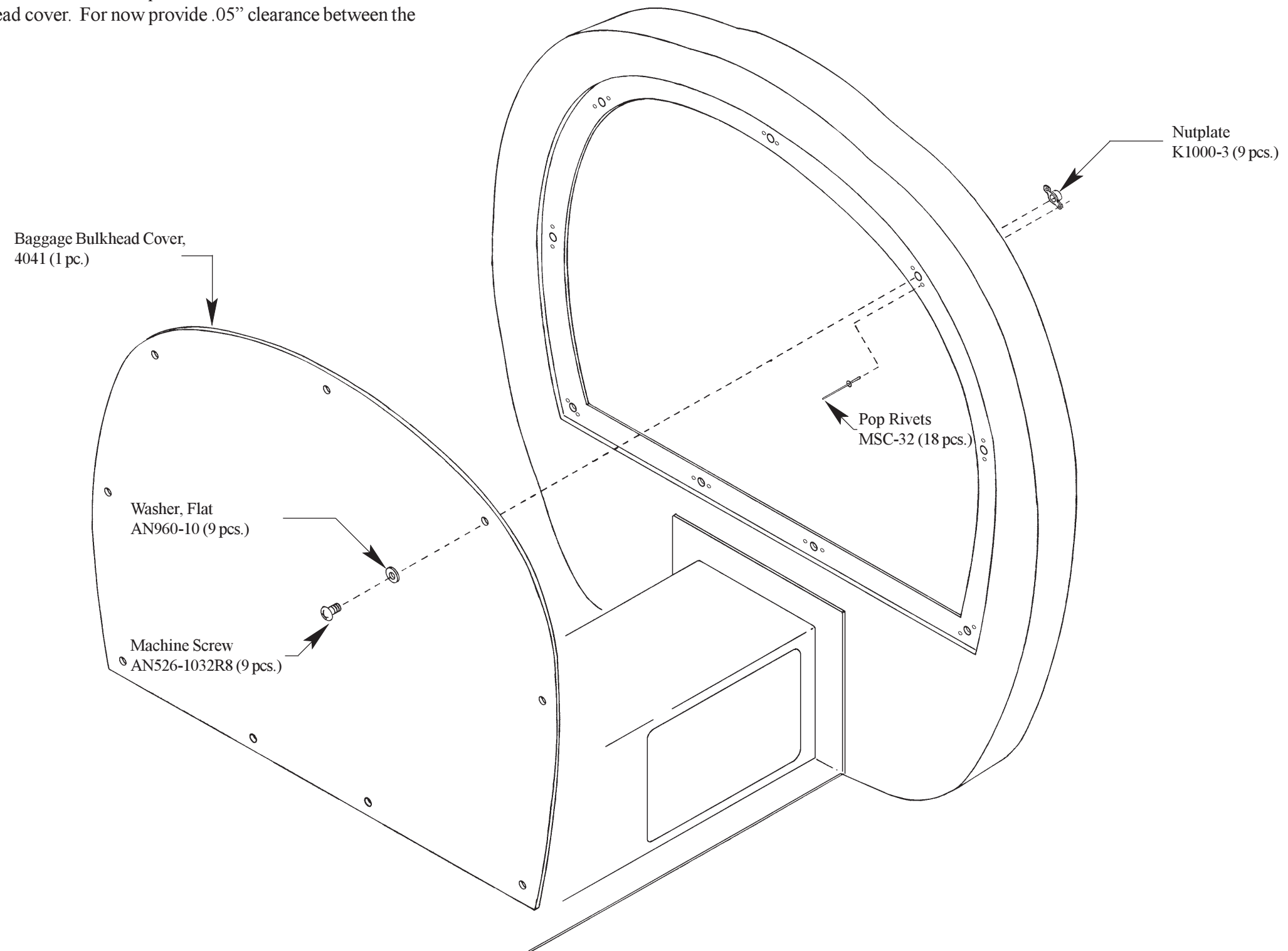
If you plan on installing the optional floorboards it is a good idea to check the fit now. This will ensure that the center console is properly centered.

A 6. Bond closeout in place using epoxy/flox.

B. BULKHEAD COVER

The bulkhead cover closes out the aft end of the “cockpit.” The holes for the screws are already pre-drilled. Start by fitting the bulkhead cover. For now provide .05” clearance between the cover and the joggle. Install the nutplates.

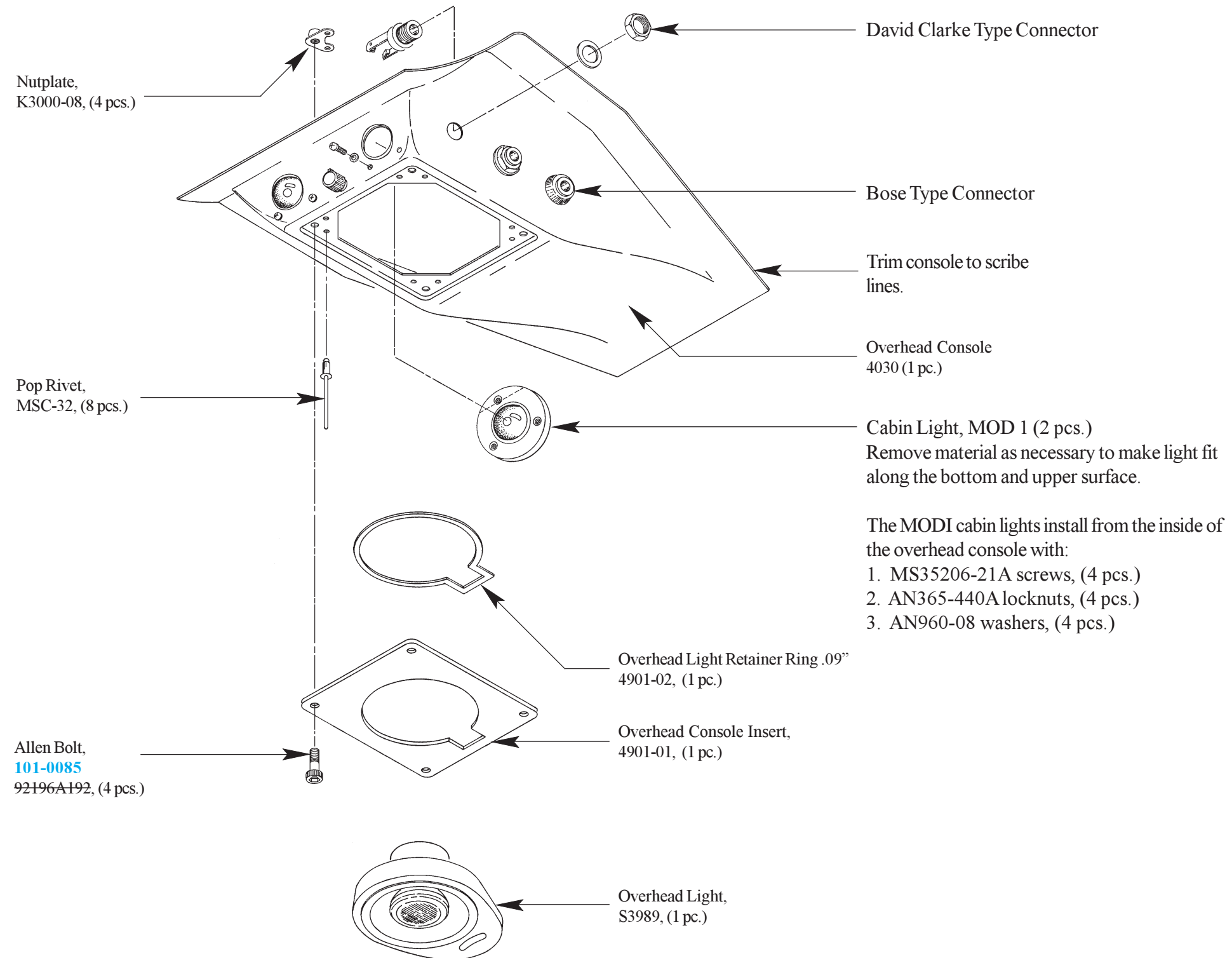
Baggage Bulkhead Cover
Figure 23:B:1



C. OVERHEAD CONSOLE*

The overhead console is available through KCI.

Overhead Console
Figure 23:C:1

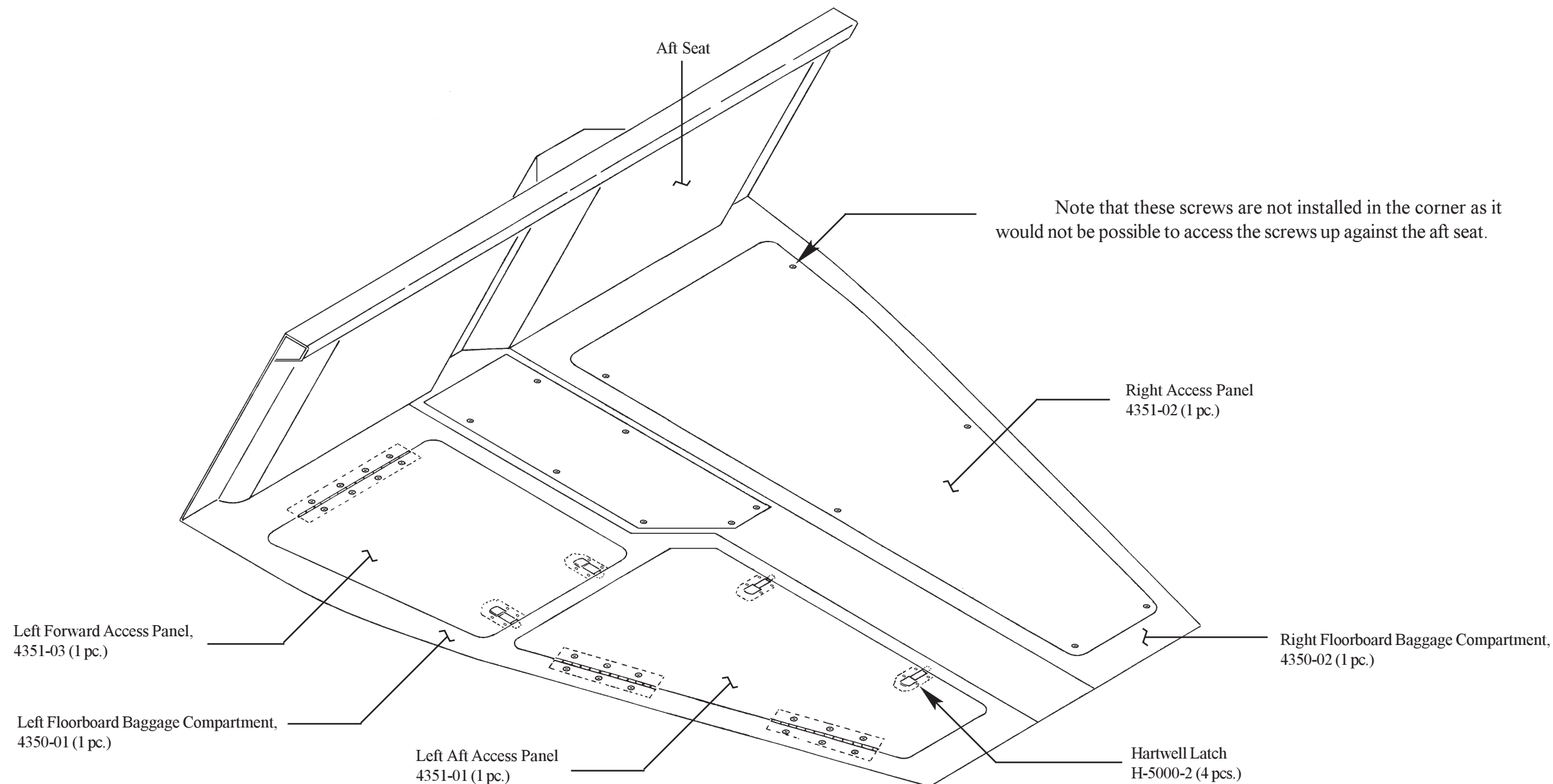


D. FLOORBOARDS*

The optional floorboards may require some trimming to fit into place. Before bonding the floorboards into place, the access panels are installed. Note that the right access panel is typically installed with screws. This is the compartment for items not removed on a regular basis. It is a good place for oxygen, ELT, stormscope, TCAS and other equipment.

Baggage Compartment Floorboard

Figure 23:D:1

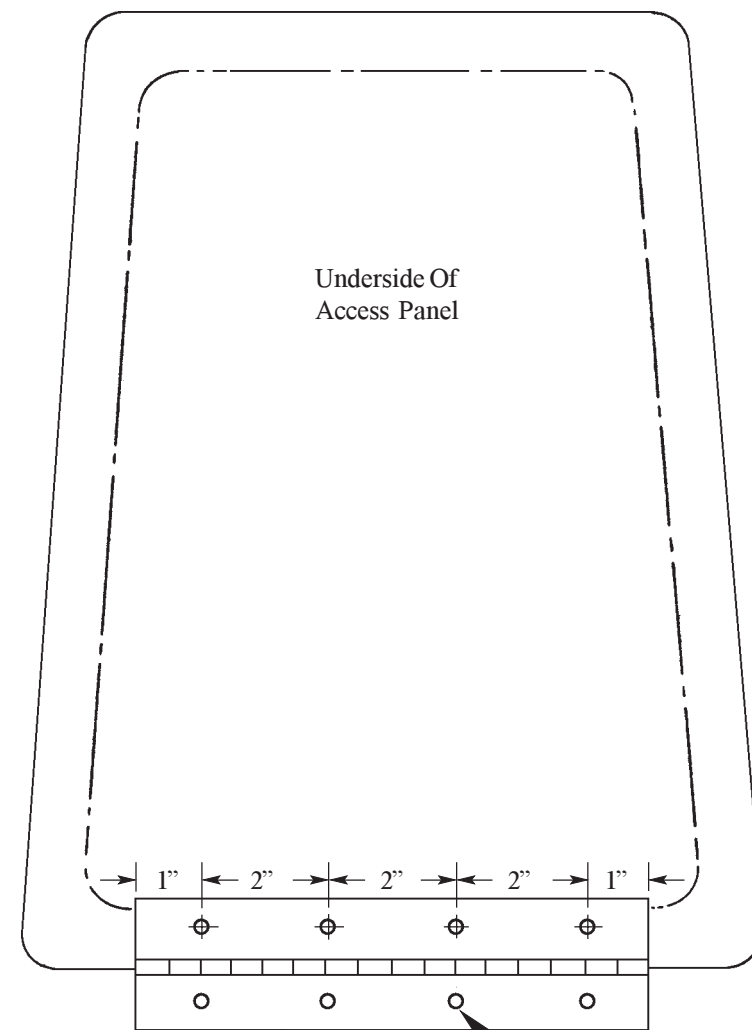
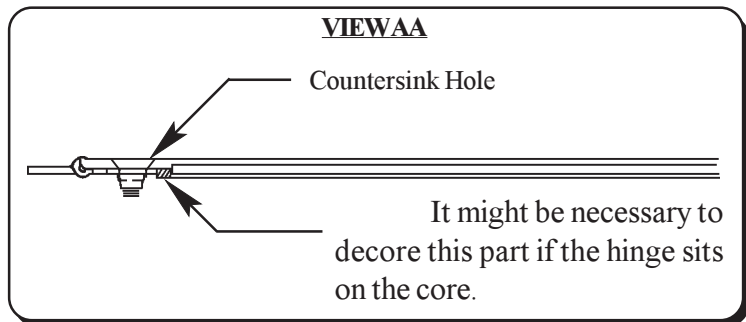
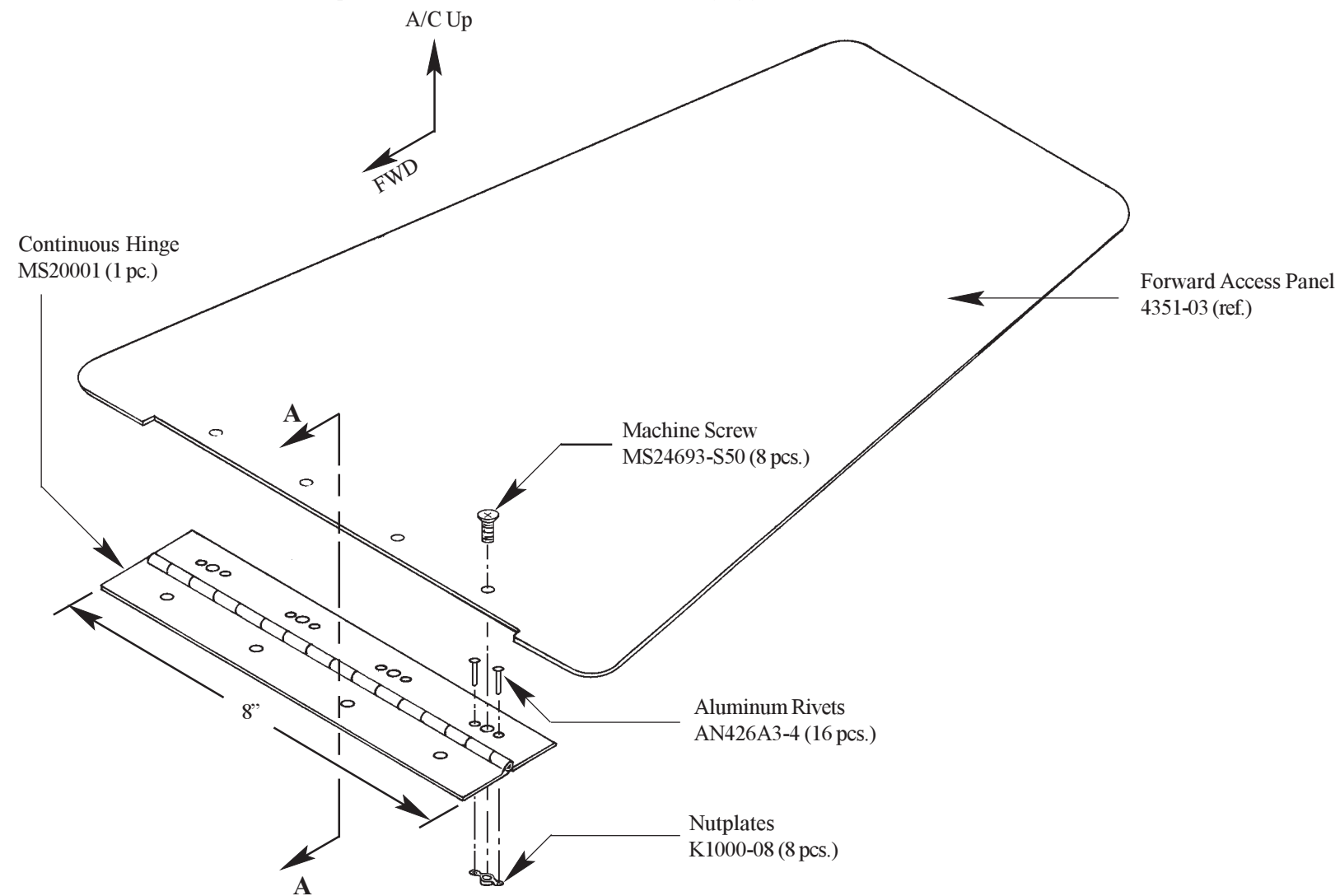


Installing Floorboard Access Panels

Installing the Hinge on the Left Floorboard Forward Access Panel

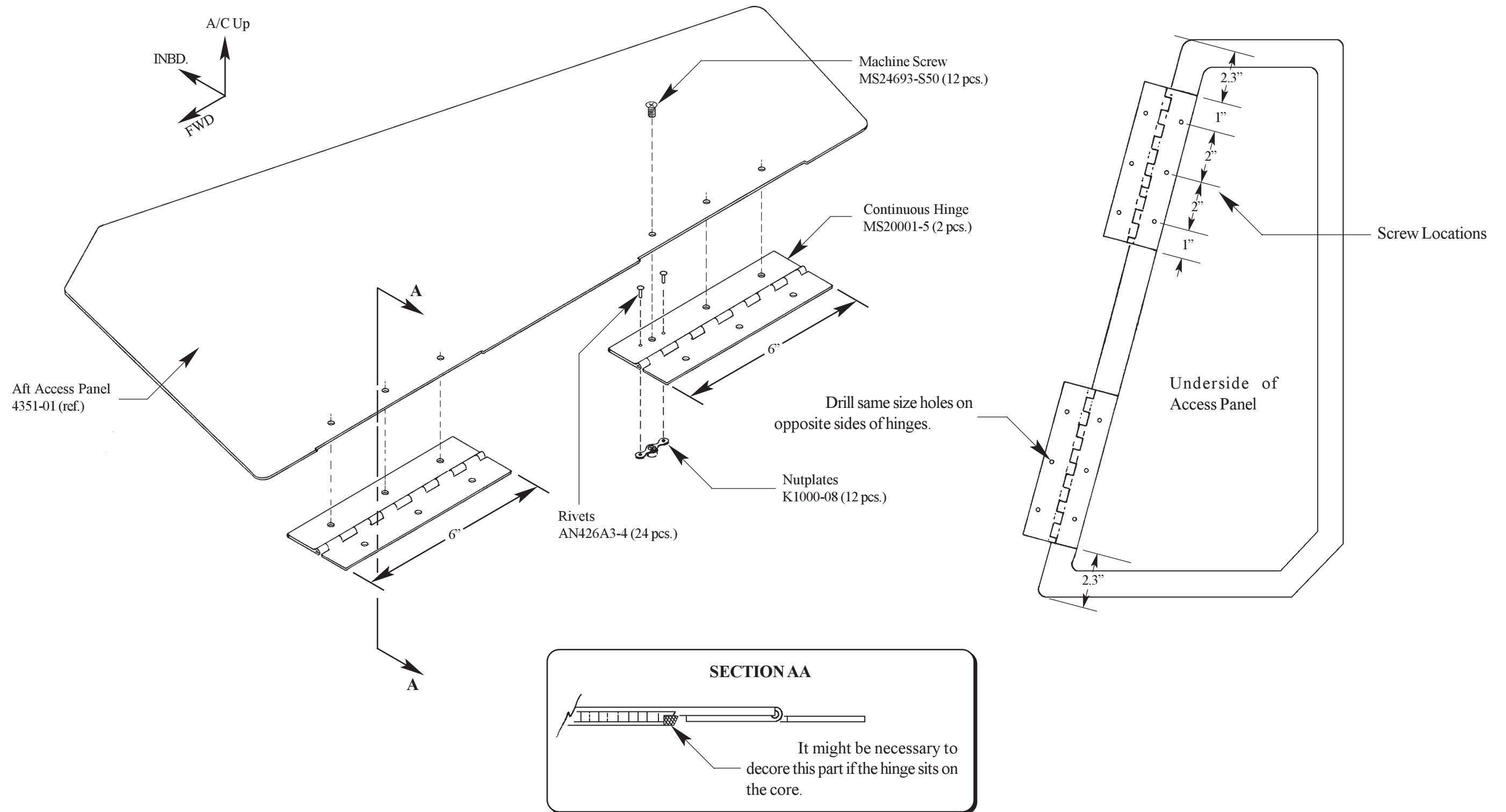
Fig. 23:D:2

- D 1. Trim the floorboard's (P/N 4350-01/02) access panel joggles to 5/8" width and sand the edges flat.
- D 2. Trim and fit the access panels (P/N 4351-01/02/03) onto the joggles.

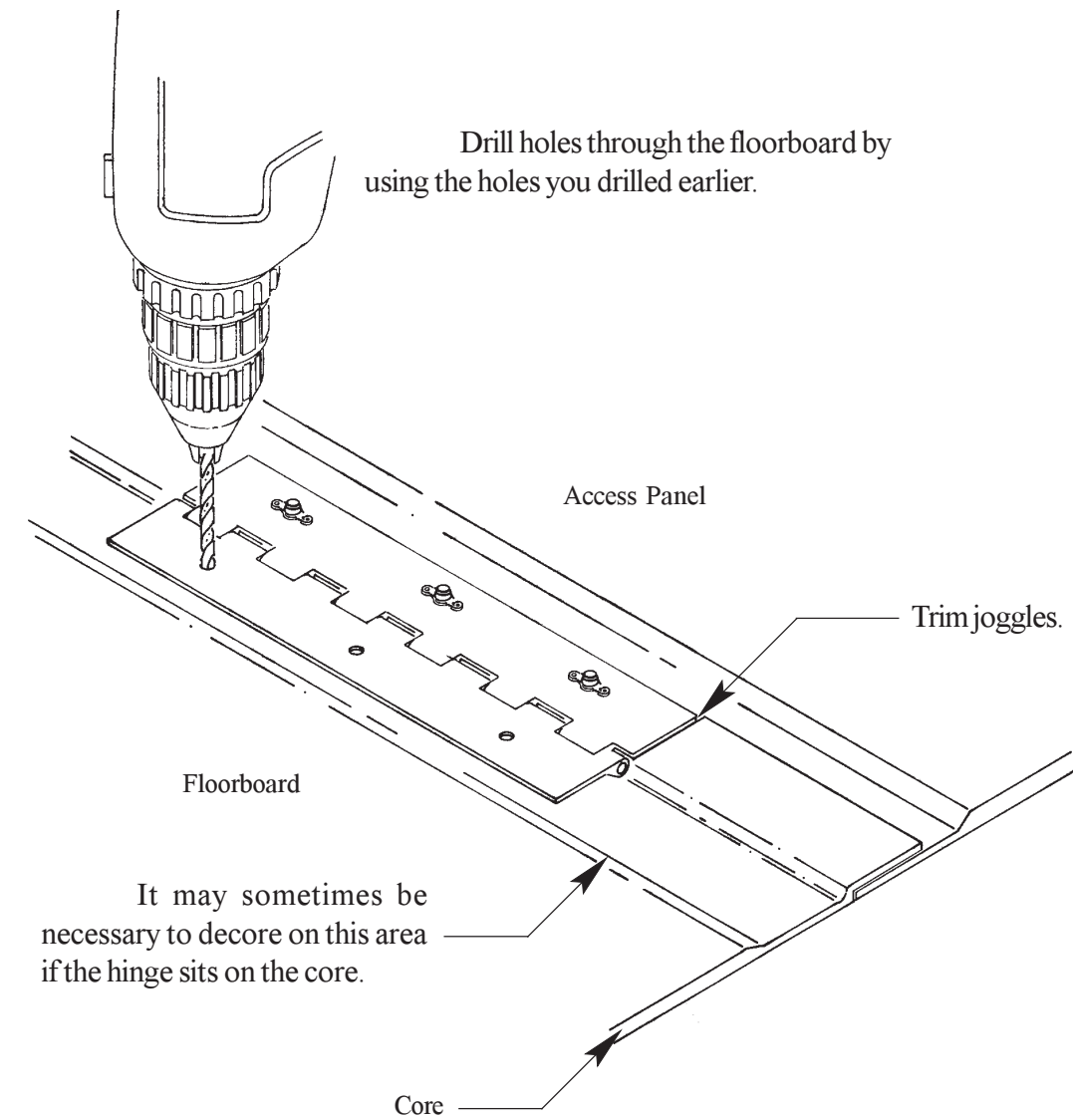
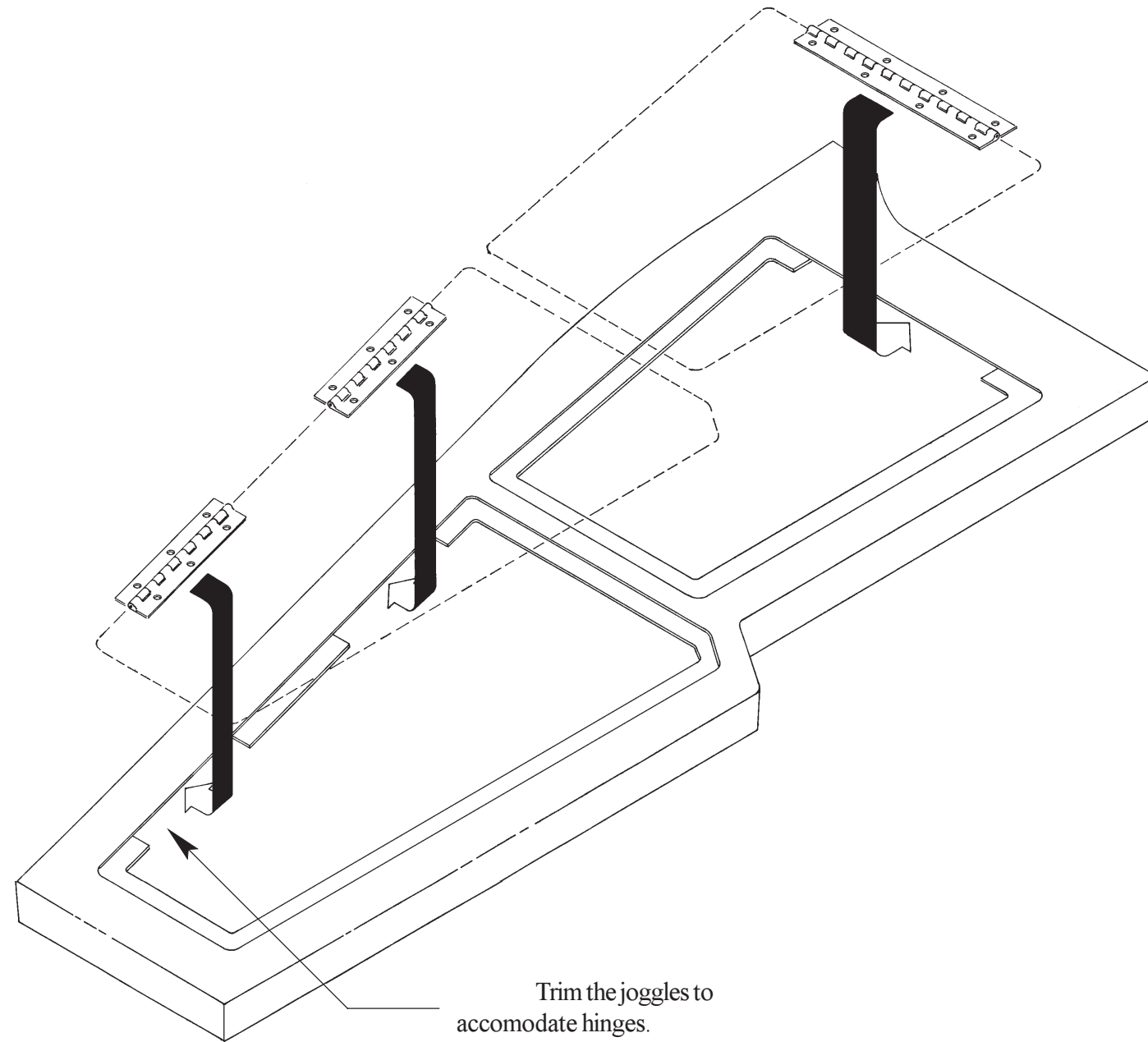


Center the hinge on the access panel's edges. Drill same size holes (#20) on opposite side of hinge.

Installing the Hinge on the Left Floorboard Aft Access Panel
Figure 23:D:3



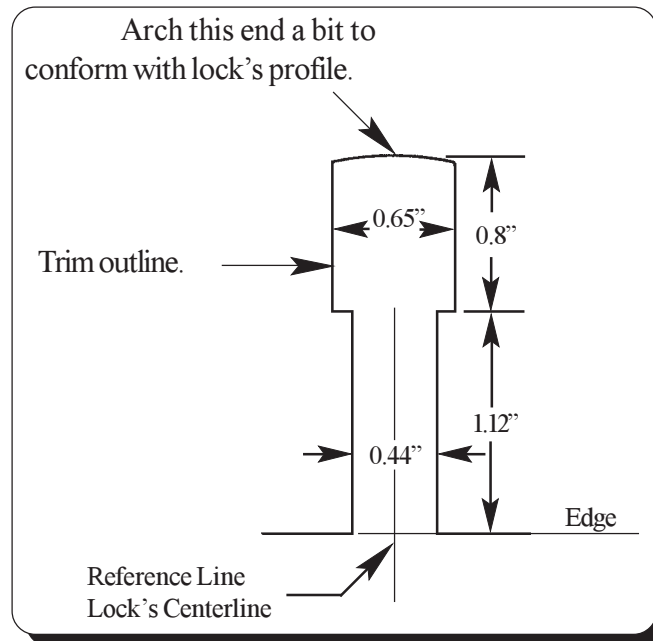
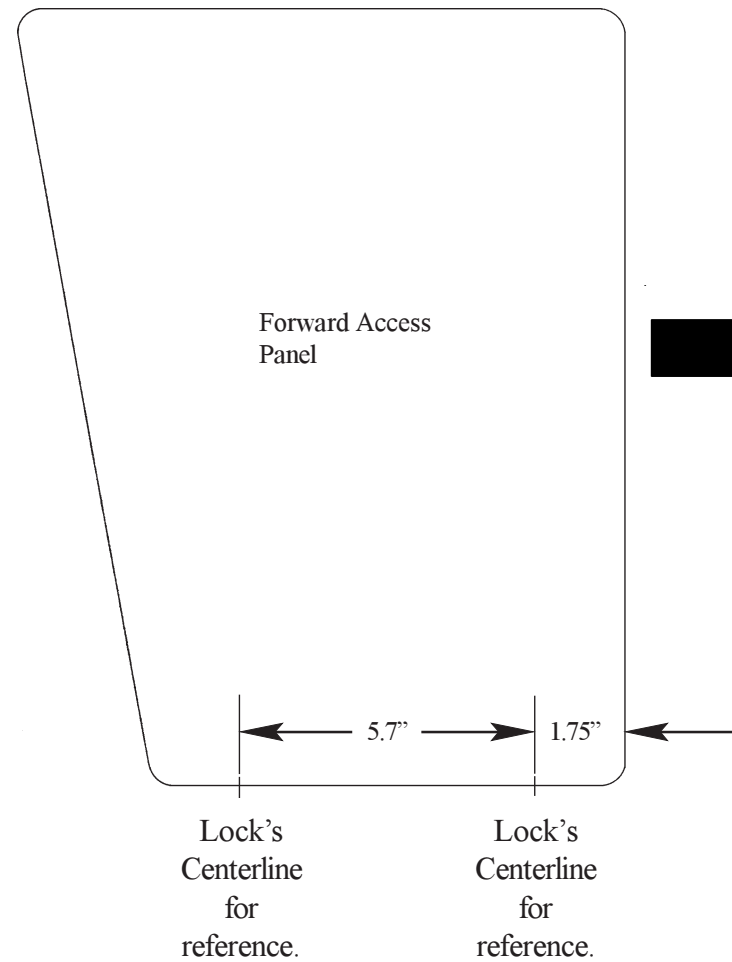
Securing Access Panel to Floorboard
Figure 23:D:4



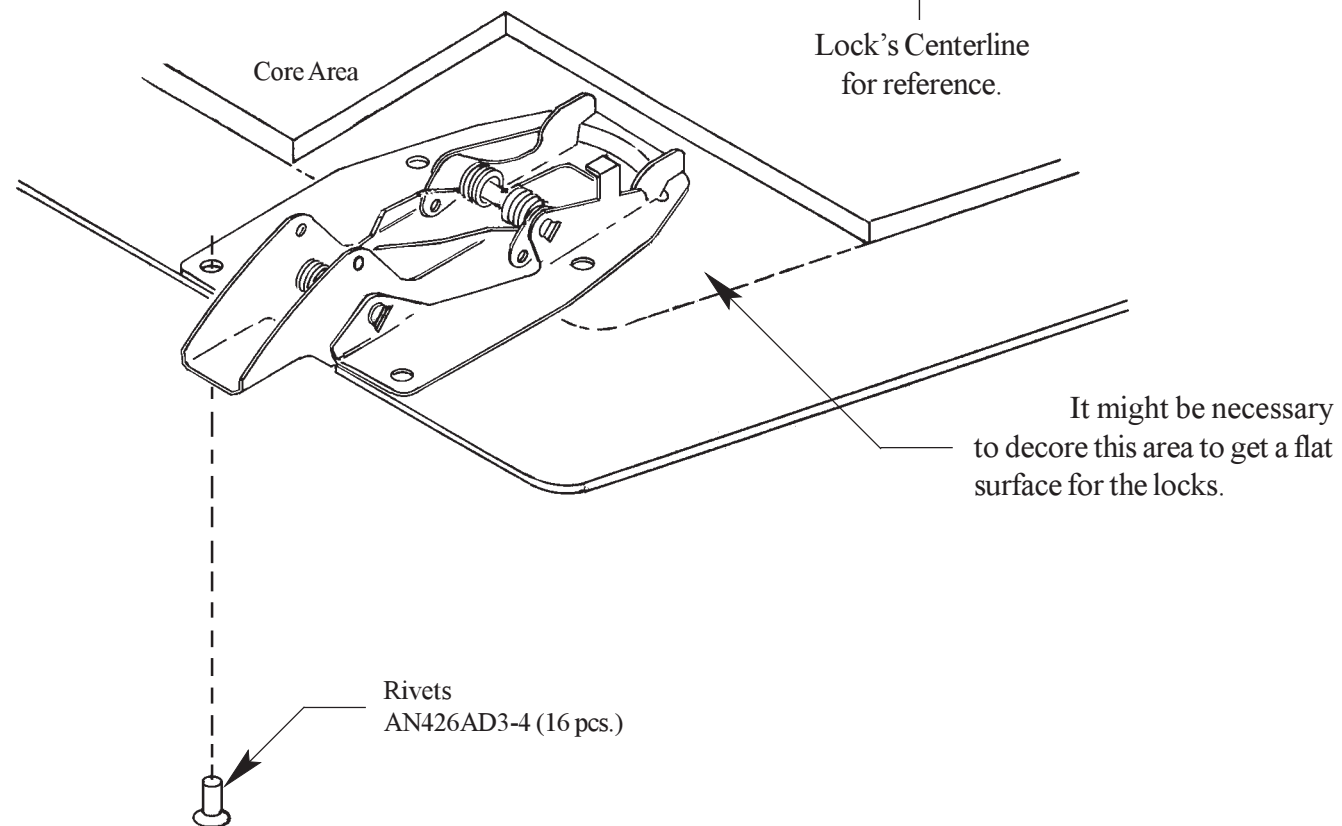
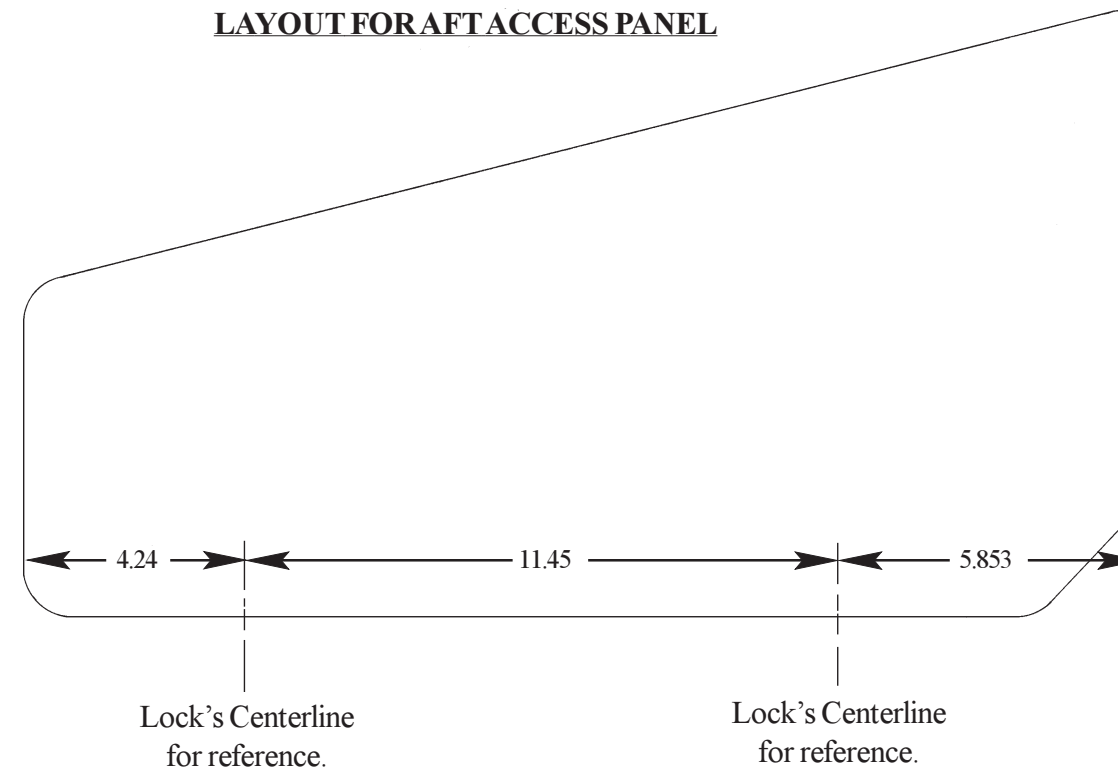
Installing the Hartwell Trigger Locks
Figure 23:D:5

Trim the access panels to fit the locks.

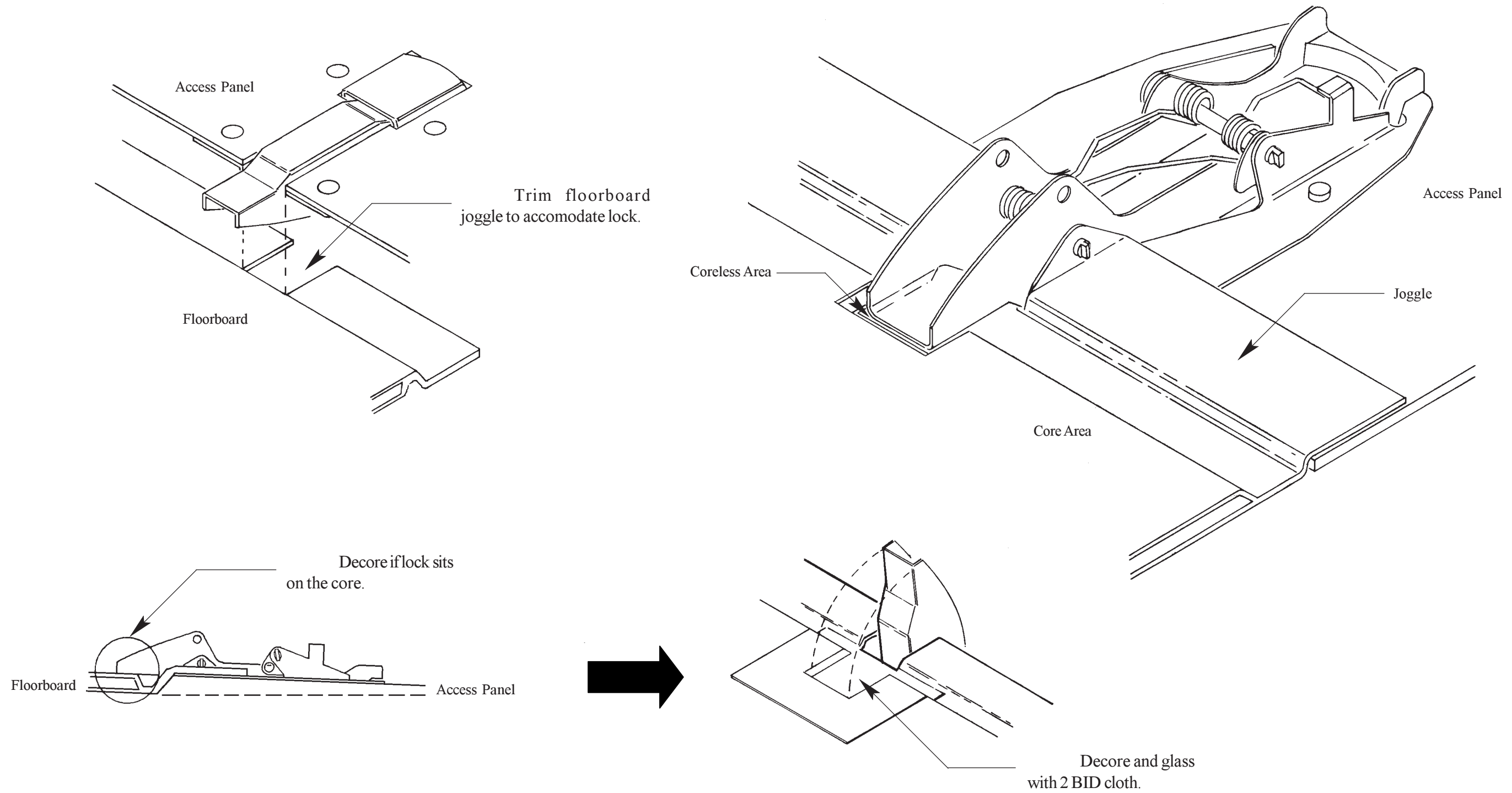
LAYOUT FOR FORWARD ACCESS PANEL



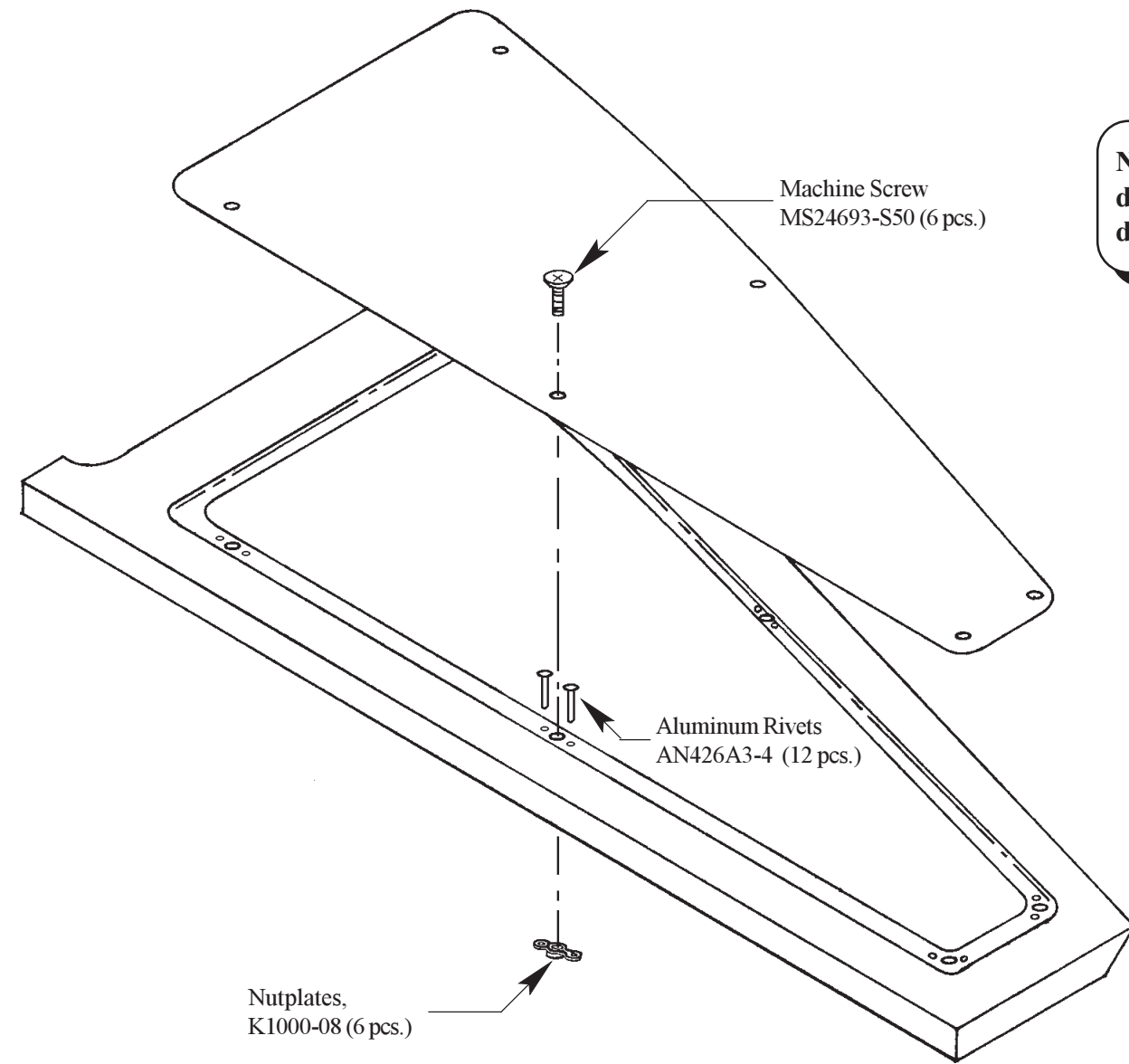
LAYOUT FOR AFT ACCESS PANEL



Trimming Joggles to Accomodate Hartwell Locks
Figure 23:D:6

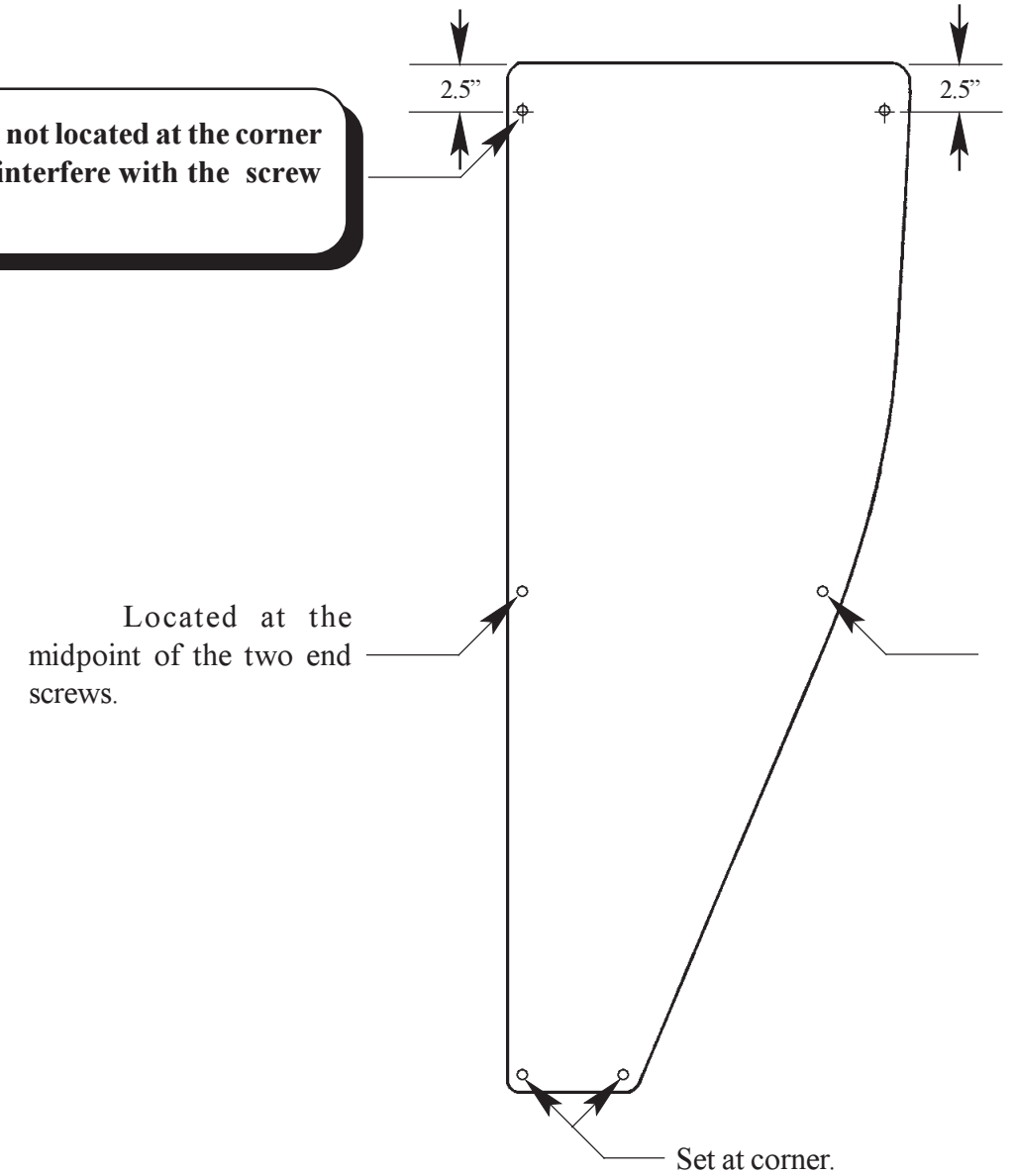


Installing Screws for the Right Baggage Floorboard Access Panel
Figure 23:D:7

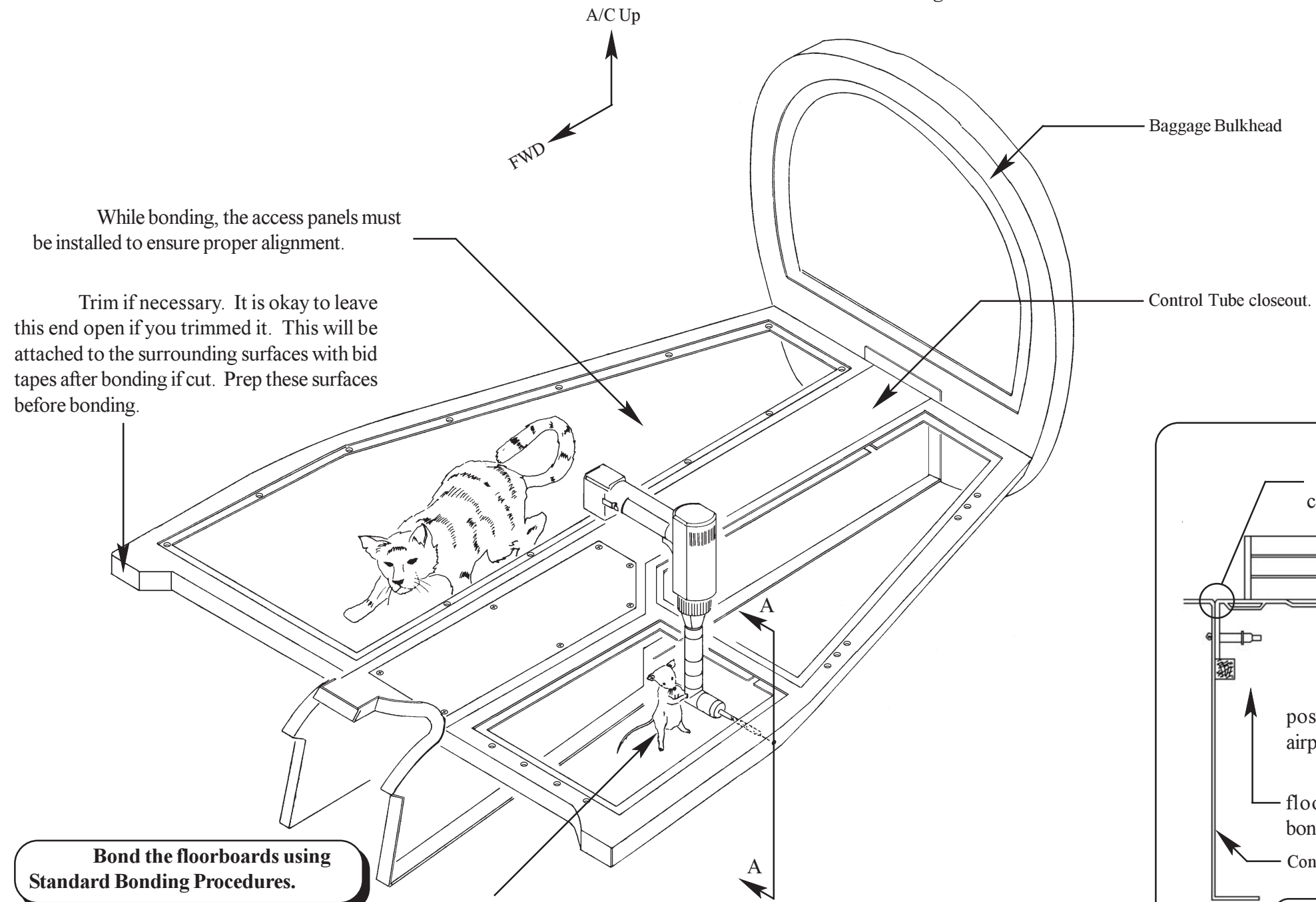


NOTE: These screws were intentionally not located at the corner due to the seat backs angle that would interfere with the screw driver when the screws are removed.

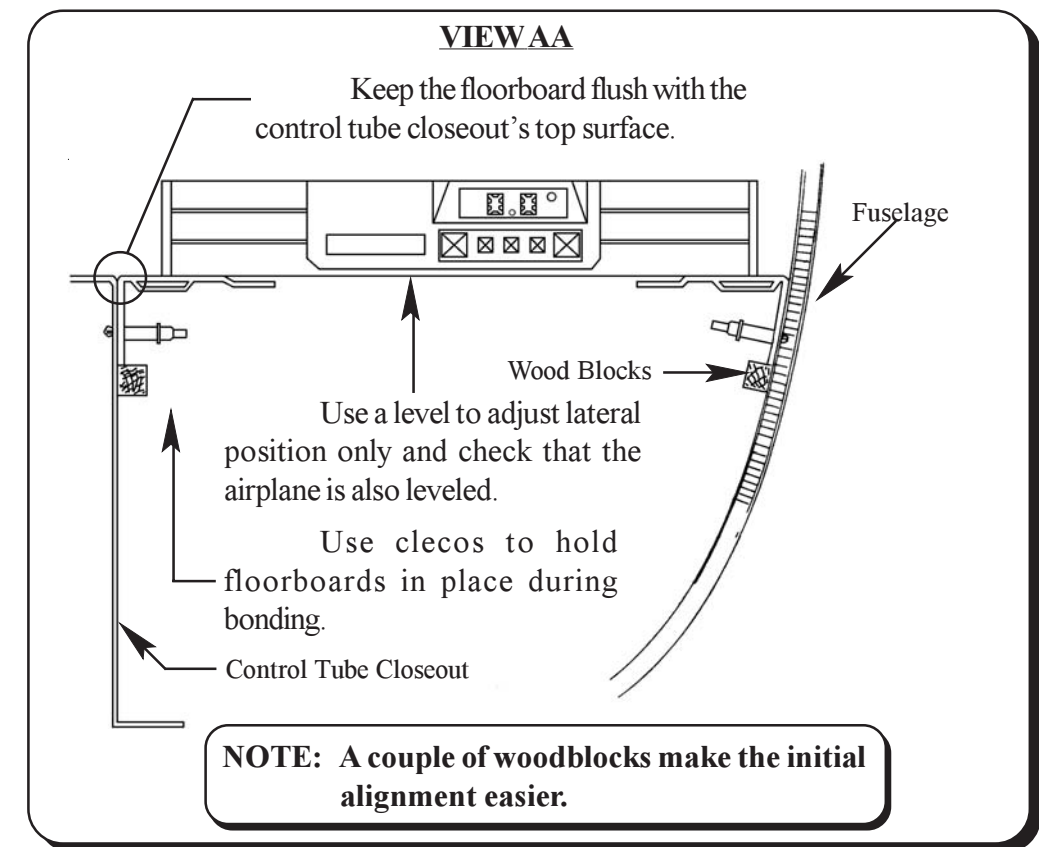
SCREW LOCATIONS



Fitting Baggage Floorboards
Fig. 23:D:8



Once aligned, drill alignment holes through the bonding flange and into the fuselage side. These holes are used for clecos during the bonding process. We suggest installing a few wood blocks (see VIEWAA) for initial alignment while bonding.



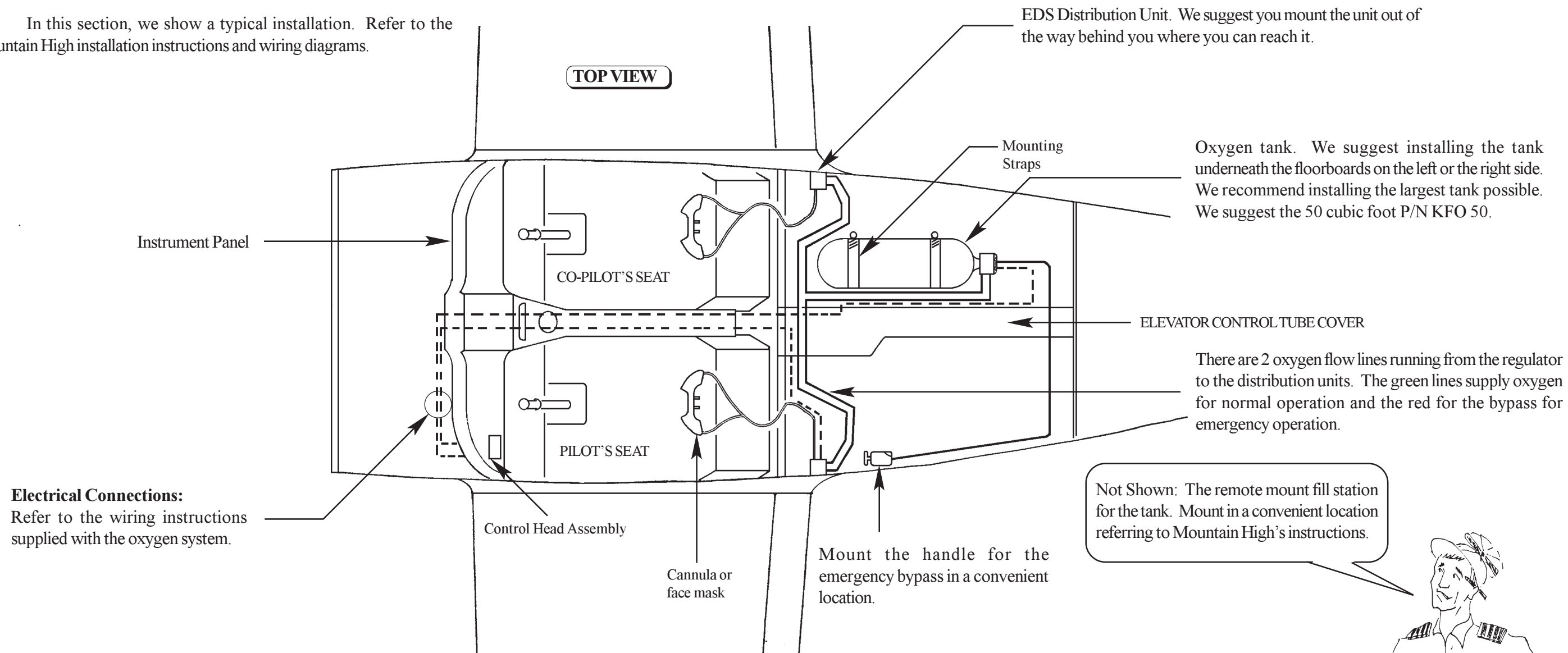
E. OXYGEN SYSTEM (optional)

The recommended oxygen system for the Lancair Legacy is Mountain High's on demand pulse system. A kit developed for the Lancair Legacy is available through Lancair Avionics. Refer to <http://www.mtn-high.com> to learn more about how the system works.

In this section, we show a typical installation. Refer to the Mountain High installation instructions and wiring diagrams.

Oxygen System - General Overview

Fig. 23:E:1



Electrical Connections:
Refer to the wiring instructions supplied with the oxygen system.

