



**WATERBORNE FLOAT SYSTEM
INSTALLATION GUIDE**

**AIRCRAFT TYPE:
FPNA CAPE TOWN SERIES**

REVISION A

02-01-2010



A-22 VALOR FIREWALL REINFORCEMENT PROCEDURES

Prior to beginning retrofit of float assembly, insure that the proper tools and Safety precautions are in place and the main battery switch is in the **OFF** position.

STEP ONE: INTERIOR FIREWALL PREPARATION

Note: Do not disconnect choke splitter cable from housing during this step.

1. Drill out the two rivets that mount the choke splitter to the interior firewall and tie the splitter housing up and aside.



Fig. 1



2. Without disturbing the rudder adjustments, disconnect and place the Rudder linkages aside, and position rudder pedals to the aft position to gain easier access to the firewall.

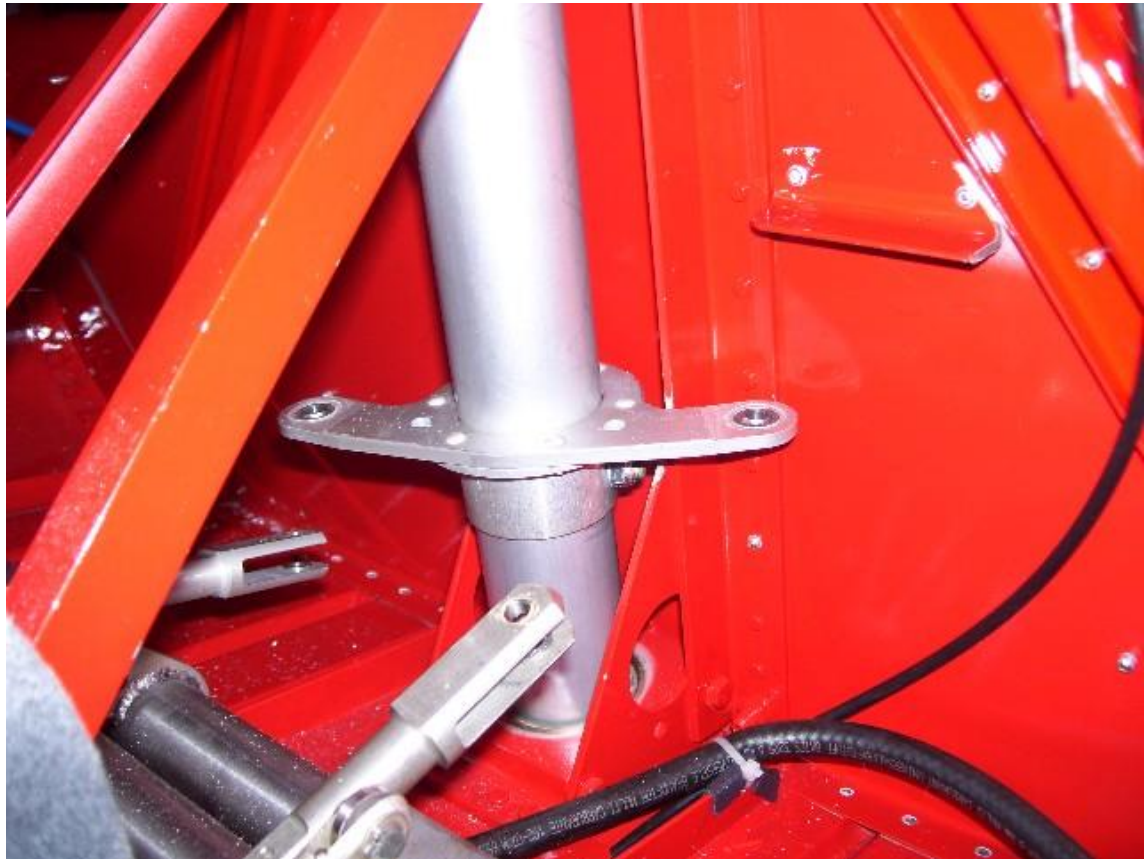


Fig. 2



3. Drill out the rivets that attach the right side horizontal reinforcement support brace on the interior side of the firewall and place to the side to be used in a later step.

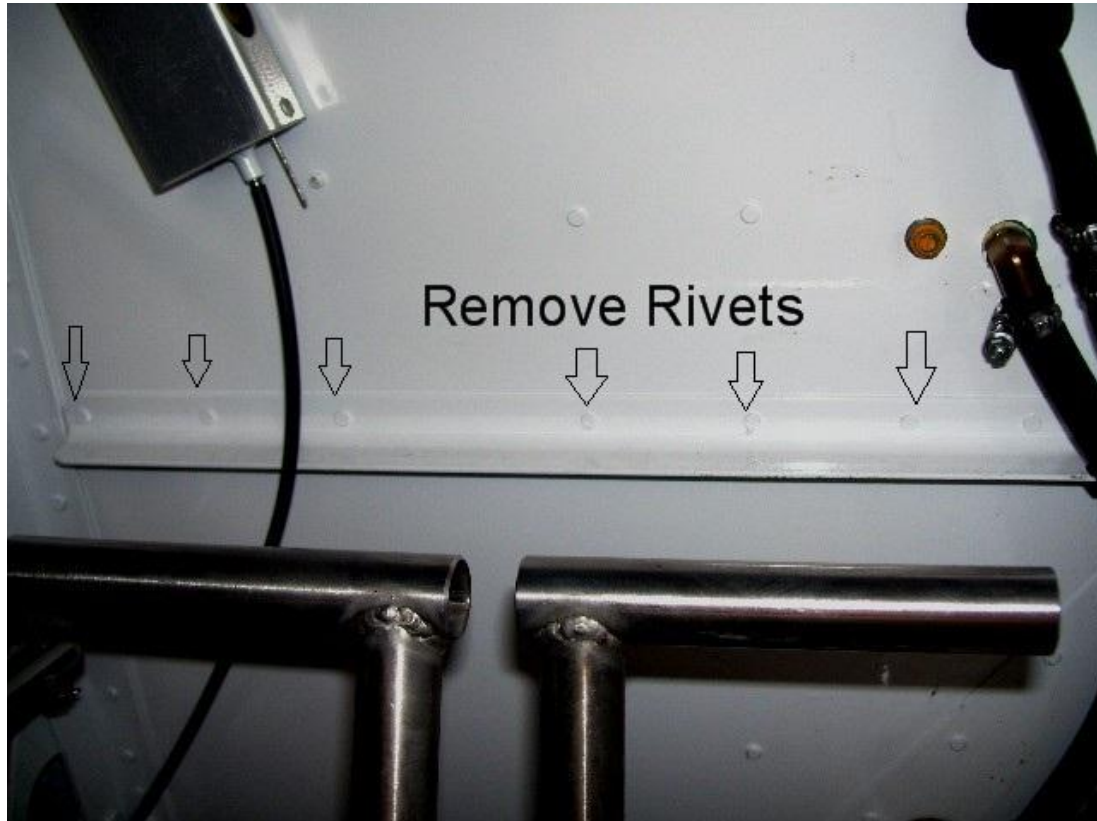


Fig. 3



STEP TWO: EXTERIOR FIREWALL PREPARATION

Note: *Do not disconnect oil tank connections during this step.*

1. Remove oil tank from bracket and tie to engine supports.

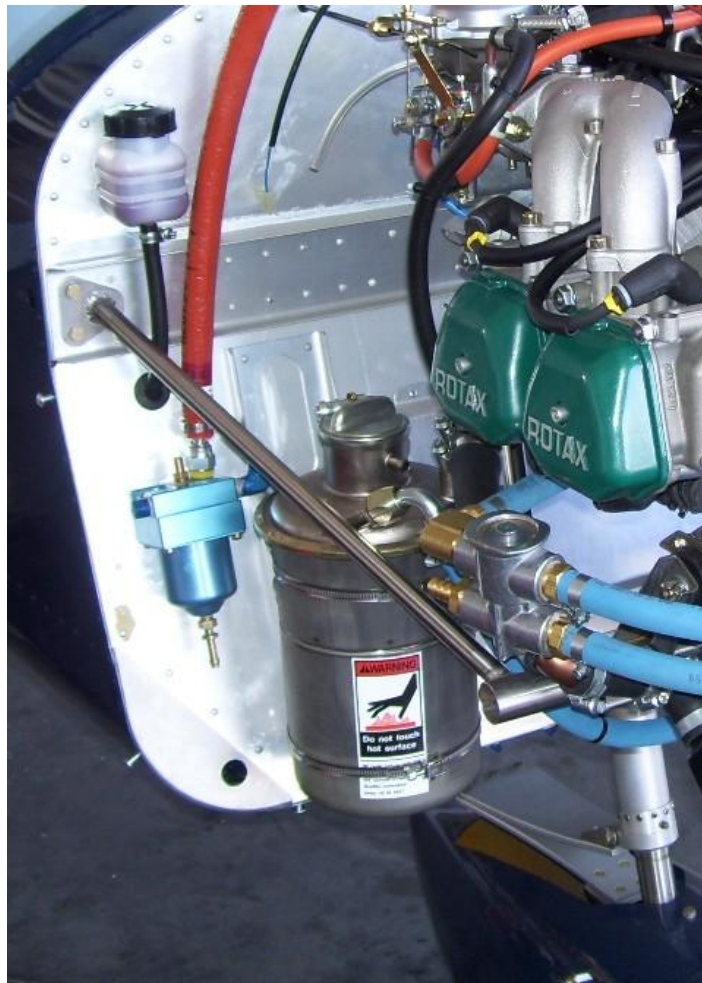


Fig. 4



2. Drill out the rivets that attach the oil tank bracket to the Firewall and remove Oil tank bracket.

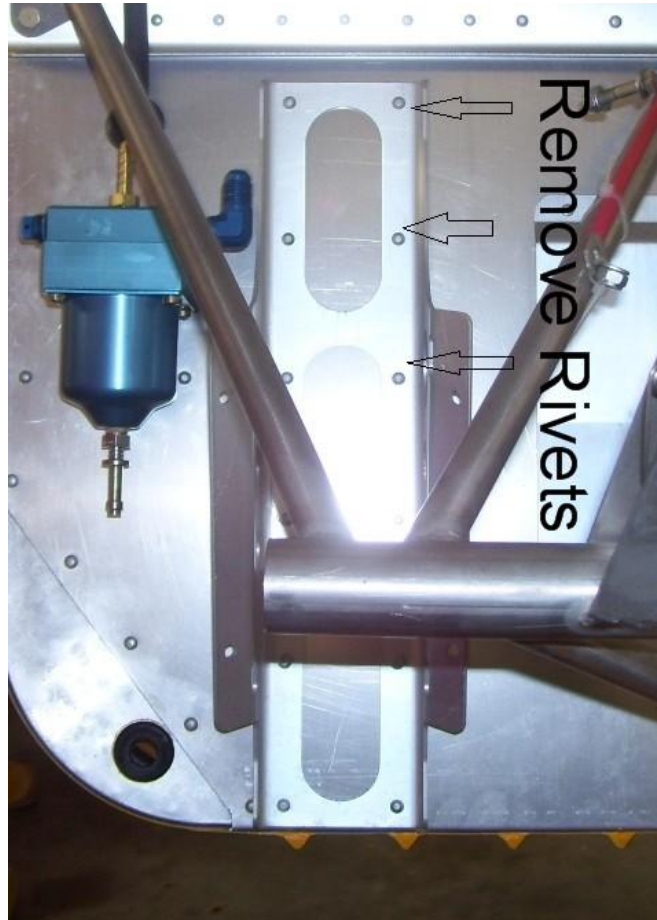


Fig. 5



3. Drill out the rivets that attach the heat shield located in the center of the Fire wall and remove the heat shield. This is to accommodate interior bracing.



Fig. 6



4. Drill out and remove all the rivets on lower right and lower left firewall.



Fig. 7



STEP THREE: INTERIOR REINFORCEMENT INSTALLATION

Note: All interior bracing is to be riveted from the engine side Firewall

1. Place and align interior diagonal reinforcement braces with “Cleco pins” to insure accurate alignment. Once alignment is achieved, install rivets to mount brace to interior firewall. Repeat on opposite side of the interior firewall.



Fig. 8

2. Cut and install reinforcement channel removed earlier (see figure 3) to the Firewall with rivets to insure firewall reinforcement.

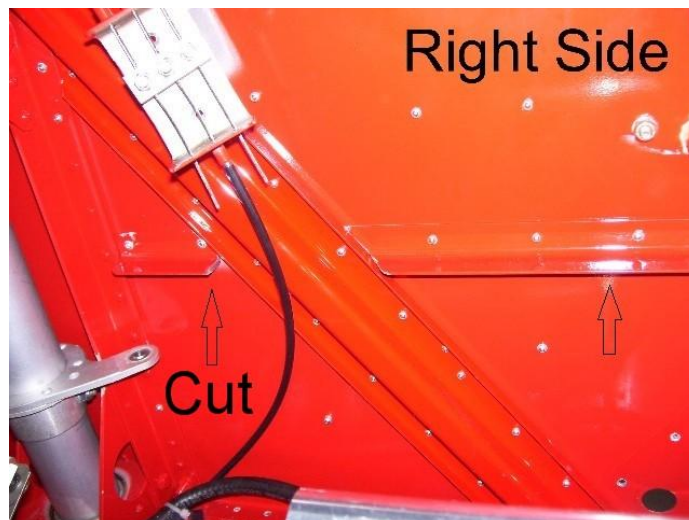


Fig. 9



3. Re-install choke splitter box removed in step 2 of the interior preparation procedures (see Fig 1 and Fig. 8A)
4. Re-install rudder linkage removed in step 3 of the interior preparation procedures.



Fig. 10



STEP FOUR: EXTERIOR FIREWALL REINFORCEMENT

Make note of the lower firewall corners prior to installing lower firewall attach brackets. There are two “doubblers” backer plates that need to be placed beneath the attach brackets. These can be held in place with “Cleco” pins.

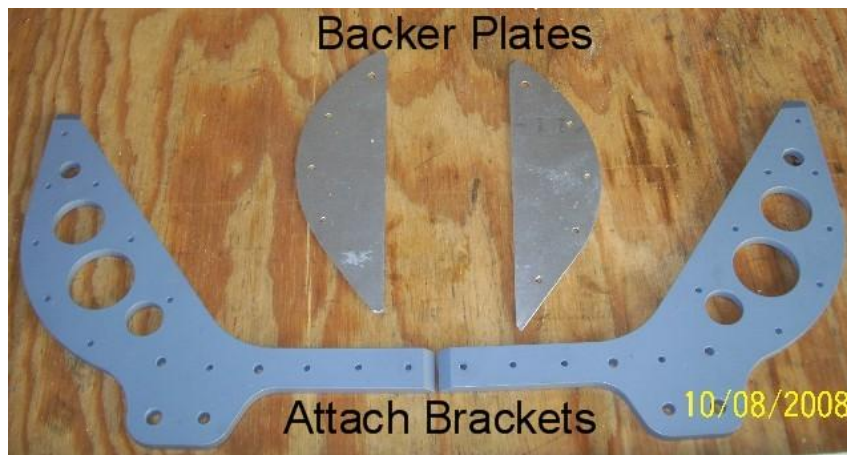


Fig. 11

1. Install lower backing plates and attachment brackets to left and right side of firewall using 12 ea AD68H pop rivets per attachment bracket.

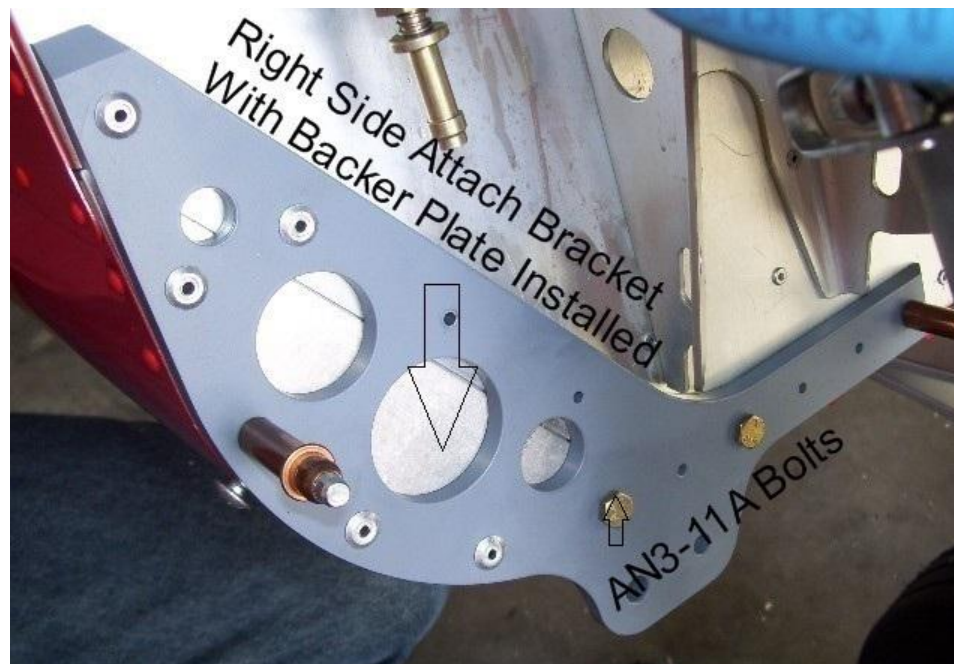


Fig. 12



Note the two AN13-11A bolts at the bottom of the firewall attach bracket. These bolts help to tie in the interior diagonal firewall support installed earlier.

2. Cut the oil tank mounting bracket and shape to accommodate the installed attach bracket and re-install using the existing rivet holes.

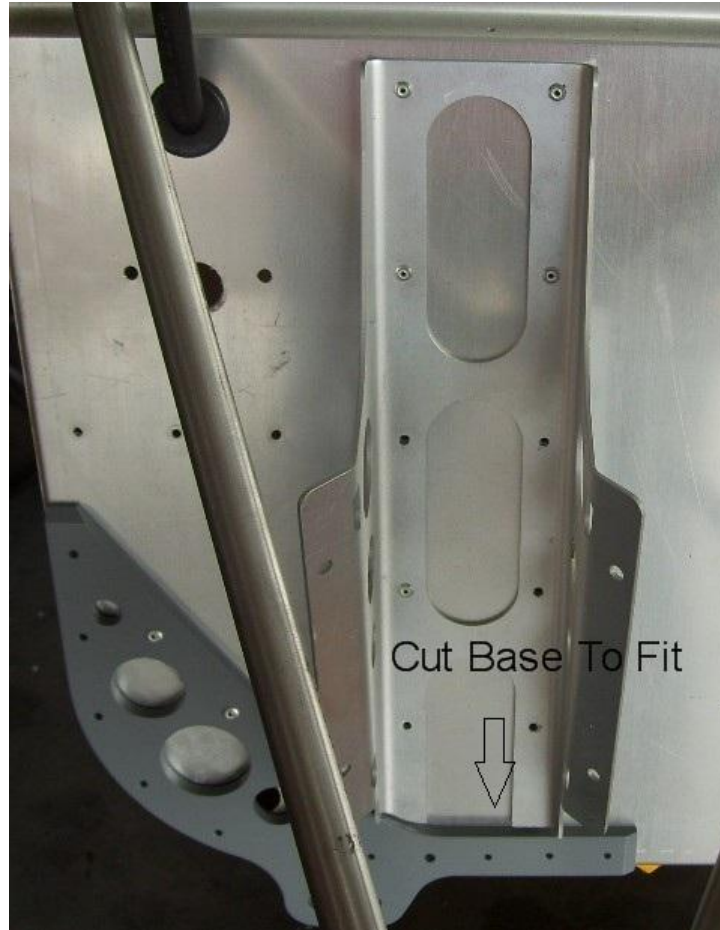


Fig. 13



3. Reinstall exterior firewall heat shield in its original position using the existing rivet holes from the removal process.

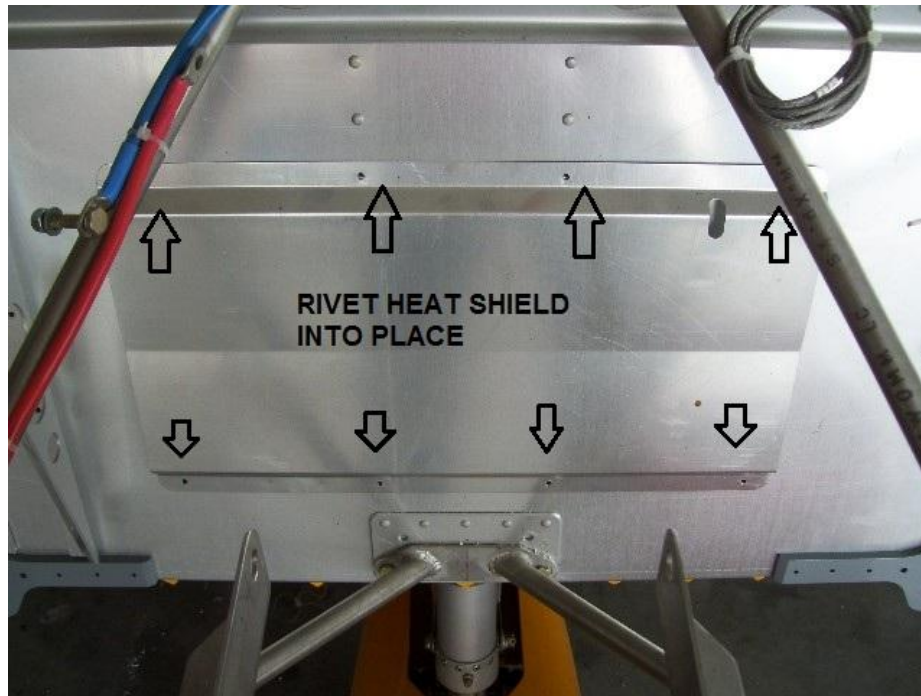


Fig. 14

4. Re-install the oil tank using the original mounting clamps.



Fig. 15



END OF FIREWALL REINFORCEMENT PROCEDURES