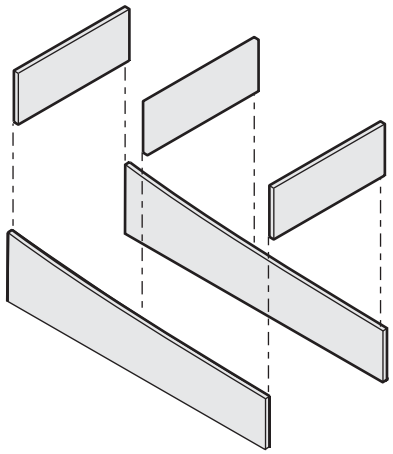
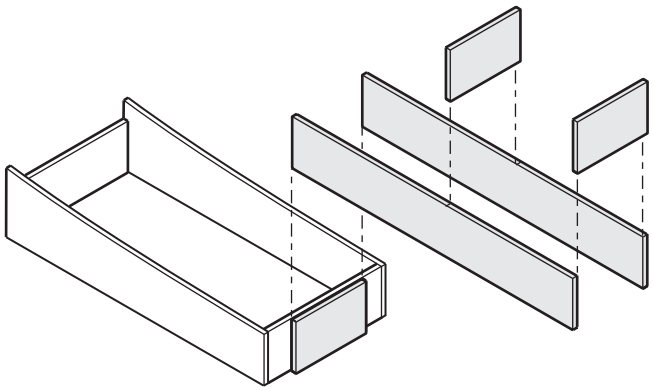
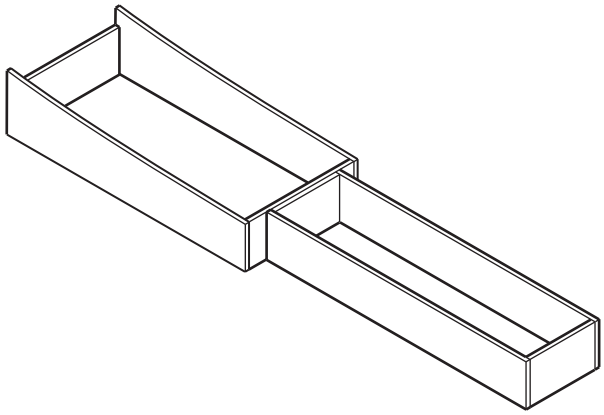
Part 1 - Assemble the Building Jig

NOTE: While the Jig makes it easier to sand the hull while its being held square, you do not have to make it to build the hull. You can use a flat board and simply put a riser to on a flat board to get the tunnel to rise in the front.





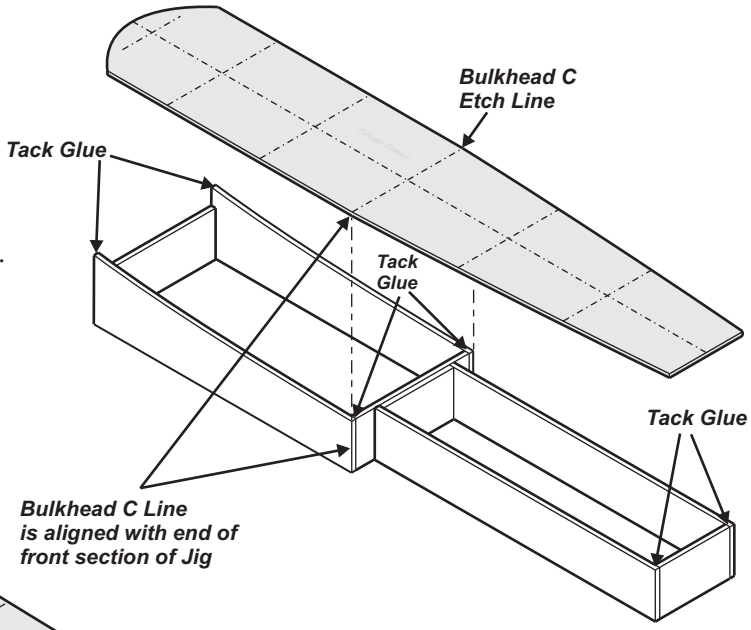


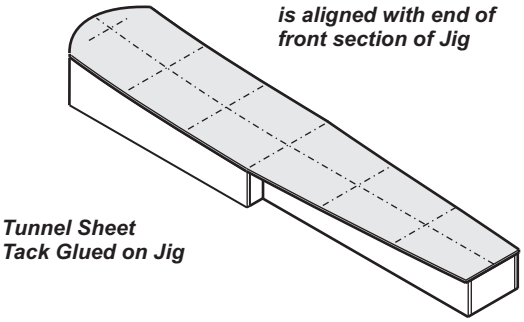
Part 2 - Assemble Hull Frame

Refer to Parts ID Sheet for Part Numbers
Recommend using CA or Epoxy Adhesive

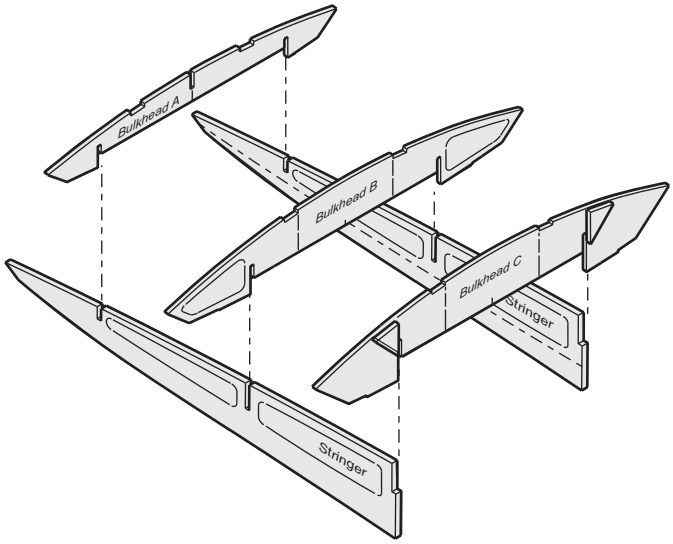
1 Tack glue the Tunnel Sheet on the Jig. Make sure Tunnel Sheet is evenly placed on Jig. Make sure Bulkhead C etched line is aligned to the end of the front section of Jig. Tack Glue at locations indicated.

NOTE: Use wax paper or apply wax on the Jig except where the Tunnel Sheet will be tack glued. This will help keep the Sheet and the rest of the build from over-sticking to the Jig.





2 Assemble the **Stringers** and **Bulkheads A, B & C**.
DO NOT GLUE YET.
Make sure these are square and even with the stringers.



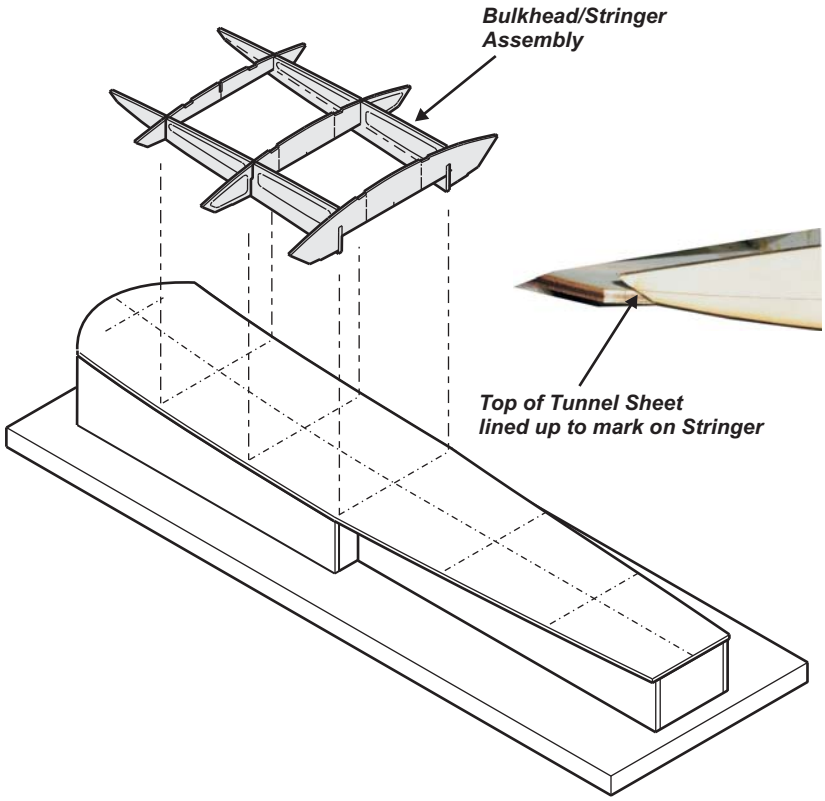
Part 2 - Assemble Hull Frame - continued

3 Place the Stringer/Bulkhead Assembly on the Tunnel Sheet.

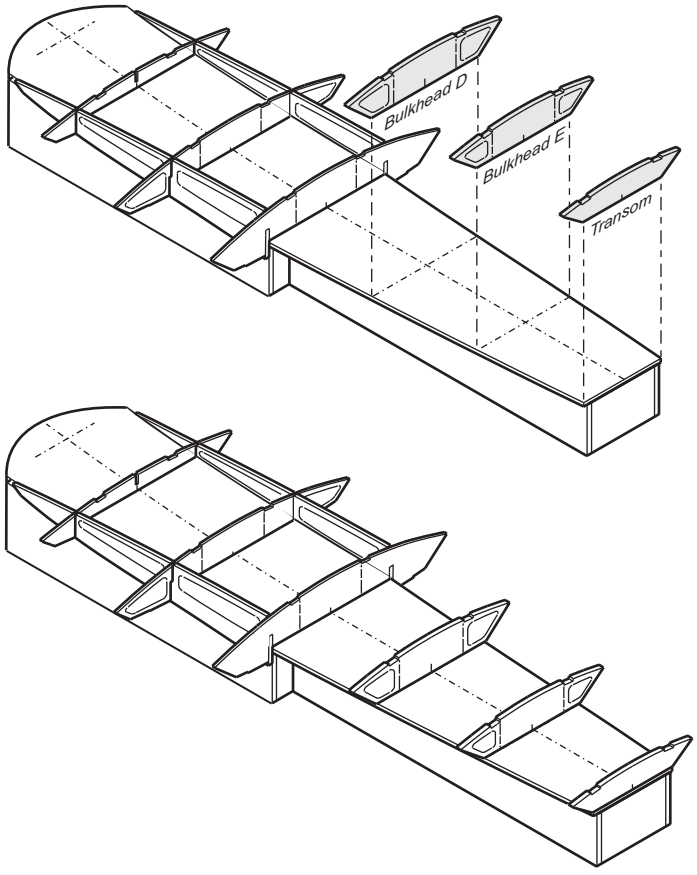
The top of the Tunnel Sheet lines up with the mark on the side of the Stringers.

The Bulkheads fit just forward of the lines on the Tunnel Sheet.

When the assembly is correctly positioned, glue in place.



4 Glue **Bulkheads D, E** and **Transom** square and just forward to the marks on the Tunnel Sheet.



Part 2 - Assemble Hull Frame - continued

5 Position and Glue **Sponson Shears** and **Afterplane Shears**.

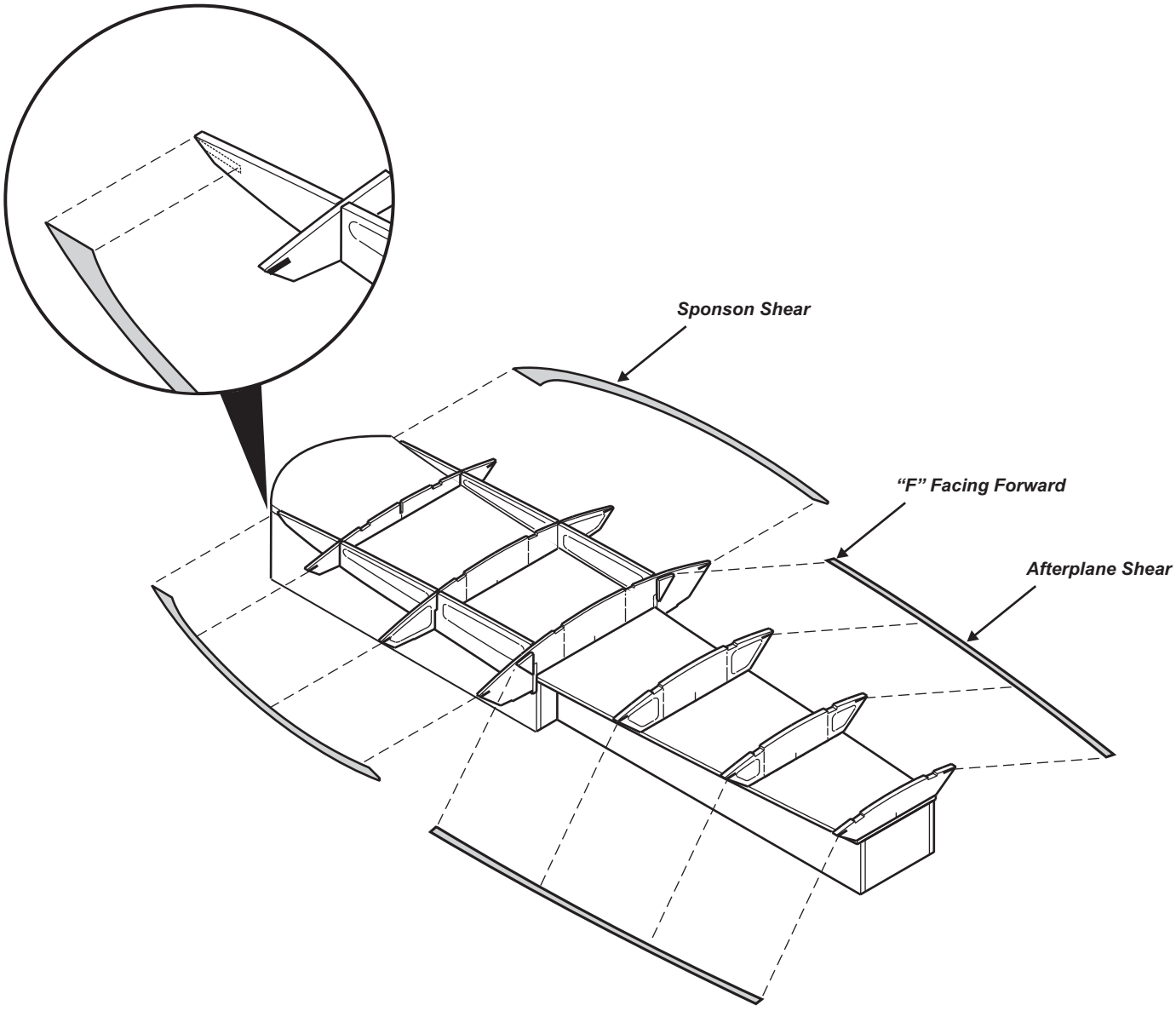
Make sure Shears fit in Bulkhead Slots

Make sure Front of Sponson Shears fit into slot.

Make sure the **"F"** on the Afterplane Shears is facing forward.

Position as shown.

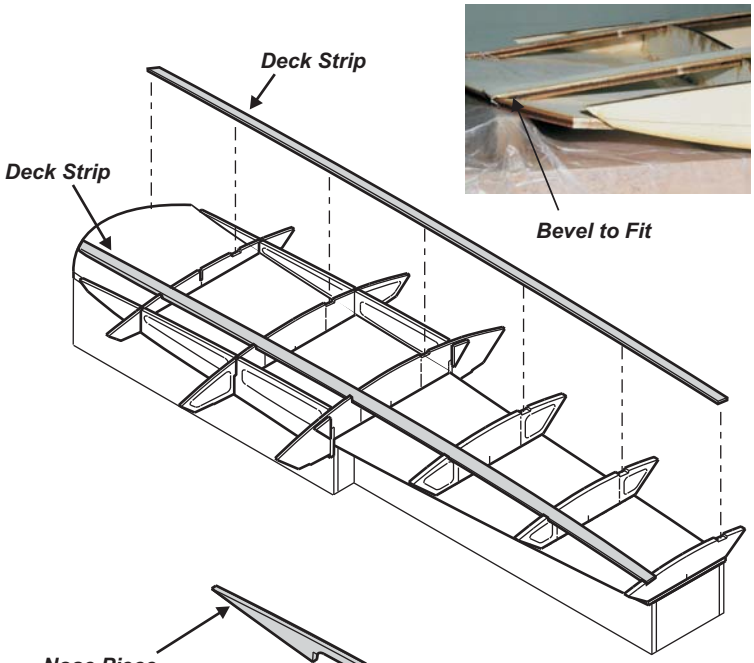
Trim back of Afterplane Shears after glue is set.



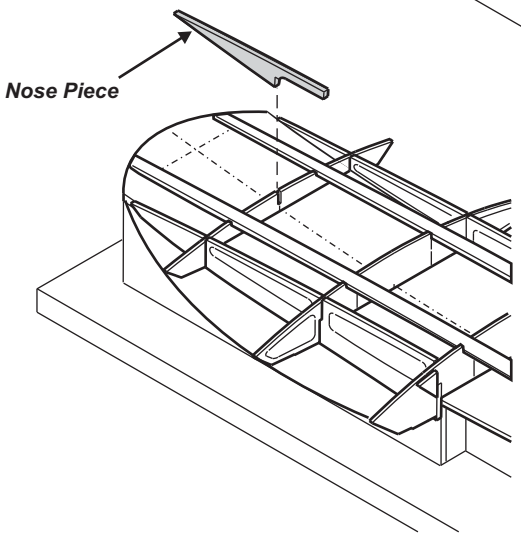
Part 2 - Assemble Hull Frame - continued

6 Bevel the front of the **Deck Strips** and glue in place.

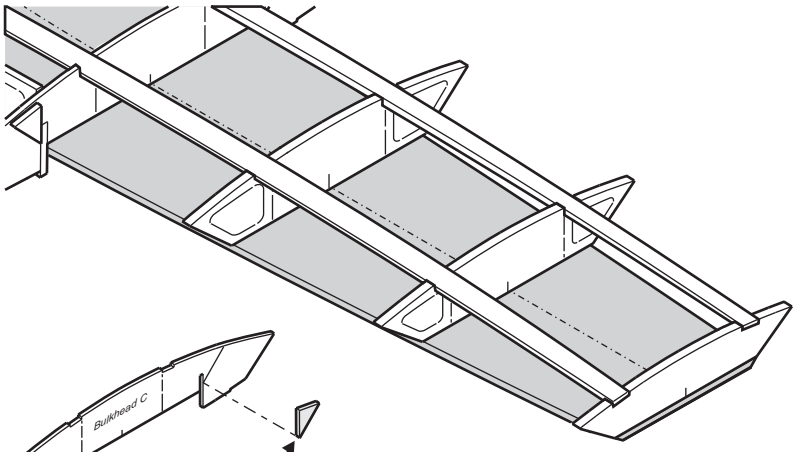
The Strips should come to the front edge of the Tunnel Sheet edge and hang over the Transom a little.



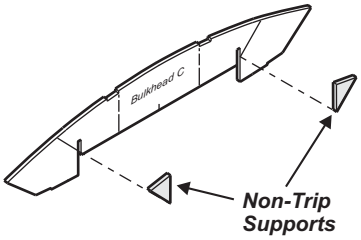
7 Center the Nose Piece on the Tunnel Sheet. Glue in place.



8 Bevel the Rear Bulkheads, Non-Trip Supports, Tunnel Sheet, and Afterplane Shear to the same angle.



9 Add **Non-Trip Supports** to the back of Bulkhead-C on the inside of the mark. This will support the rear Non-trip Sheets.



Part 3 - Assemble Non-Trips and Sponson Skins

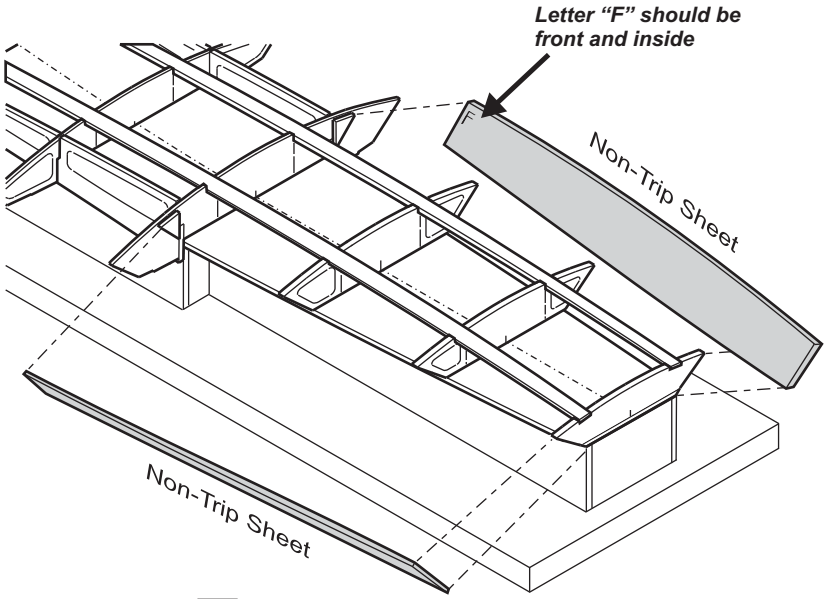
1 Fit the **Non-Trip Sheets**.

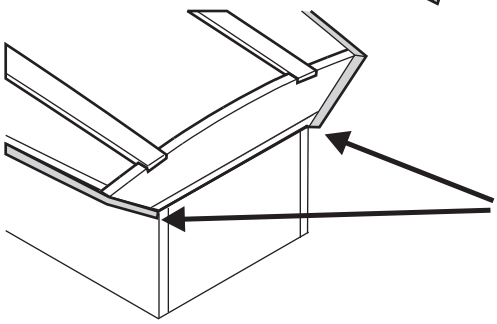
The “F” should face in and be forward. Sheets should fit flat on Bulkhead surfaces.

The bottoms of the Non-Trip Sheets should extend below the Tunnel Sheet enough to sand flat later.

Glue in place.

NOTE: Assembled Shears not shown on some steps for clarity.





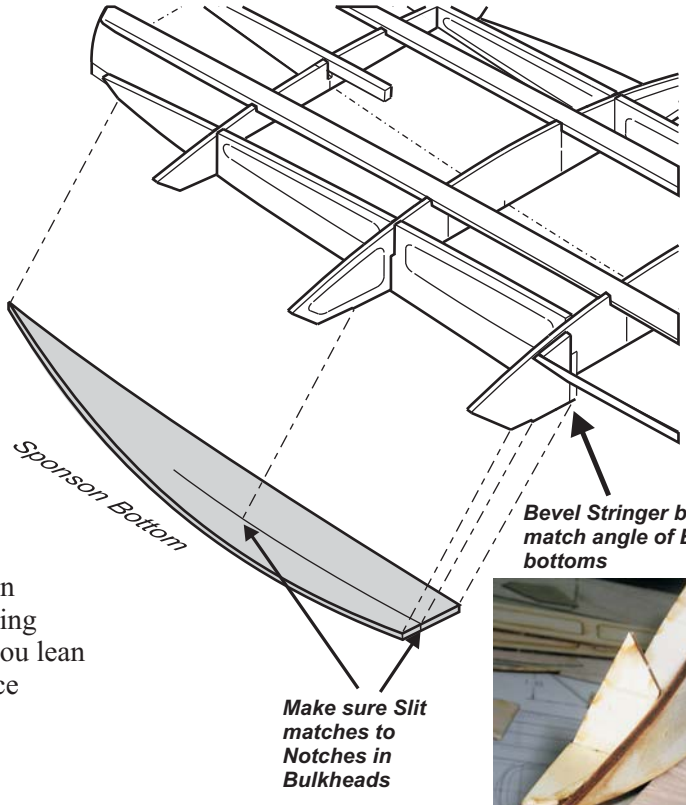
2 Slightly bevel the Stringer bottoms to match angle of Bulkhead bottoms.

Glue Sponson Bottoms in place.

Start with the inside against the edge of the Building Board and the rear flush with the back of Bulkhead-C.

Make sure Sponson Bottom slit matches to the notches on the bulkheads.

NOTE: You can turn the hull upside down attached to the jig and assemble the sponson bottoms to see easier. Be careful about putting much weight on the hull. We recommend you lean the entire assembly against a vertical surface

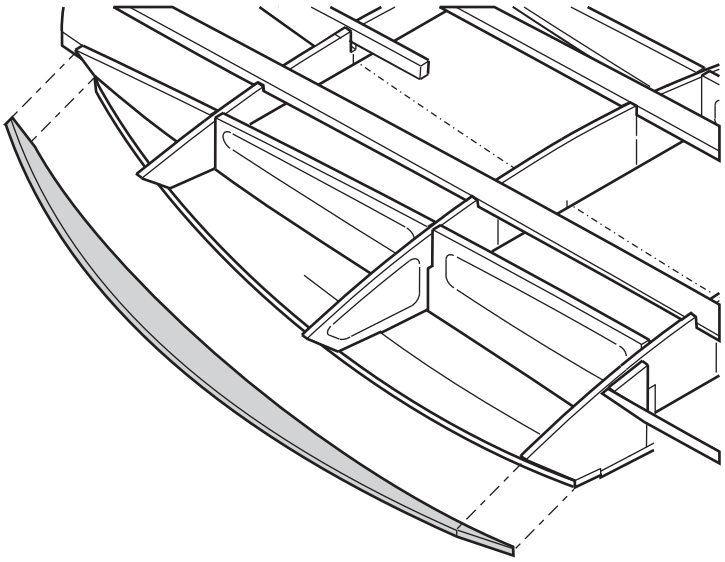


Sponson Bottom in place

Part 3 - Assemble Non-Trips and Sponson Skins

3 Bevel **Sponson Bottoms** Bulkheads and Shear to a flat even surface.

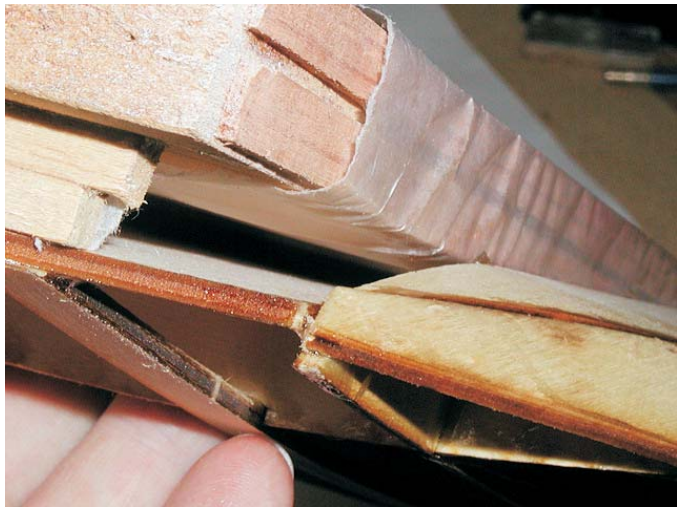
Fit the Sides and trim if necessary for an even fit.



NOTE: Assembled Shears not shown on some steps for clarity.

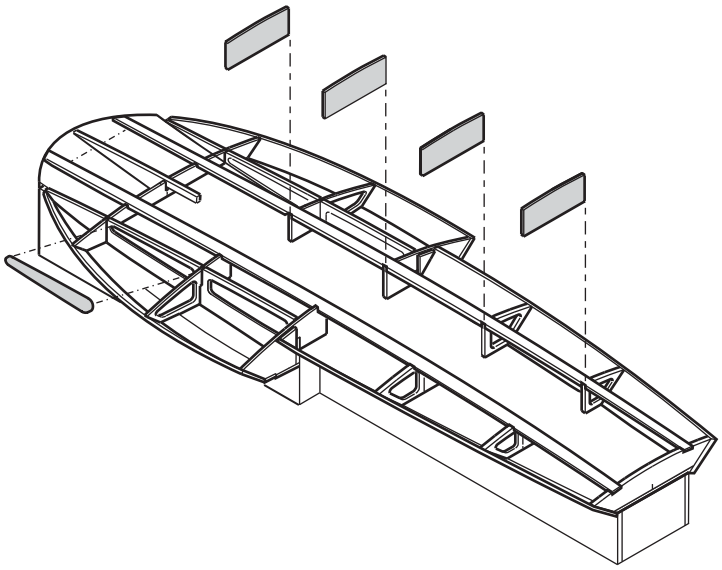
4 Glue the Sponson Sides, starting at the front with the bevel at the front tip matching the front edge of the Stringers.

Work your way to the back of the Sponson, making sure all the seams are tight.



Part 4 - Remove Excess Material - add Stringers

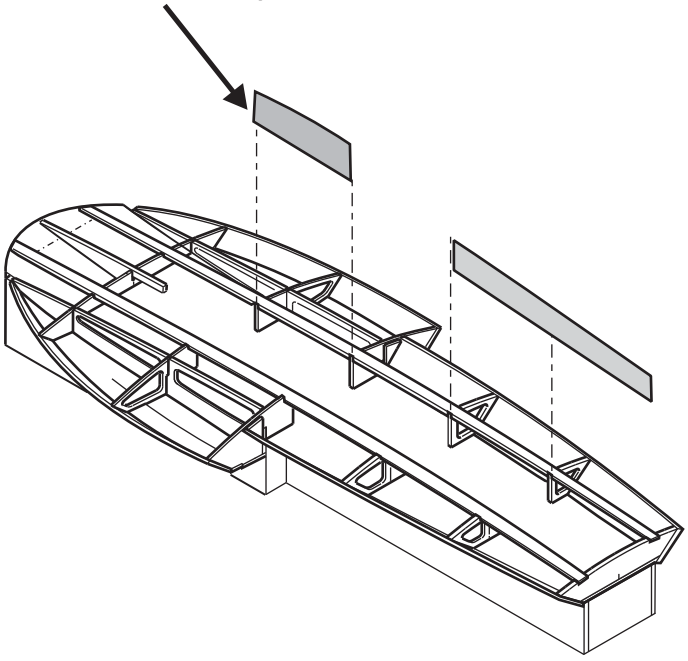
1 Remove cutouts to allow room for RC components and to lighten hull.



Use the 1/4 in. thick ply for Sport 20. The etched "B" is on the bottom and faces forward. Bevel trim the top as needed to fit under deck strip.

2 Add front and rear stringers. Trim tops of stringers for an even fit under the deck strips before gluing in place.

NOTE: for Sport 20 Nitro version, use the 1/4 in thick front stringers (engine rails). These are designed to fit under the deck stringers after slight trimming to allow 4 in. of width between them.



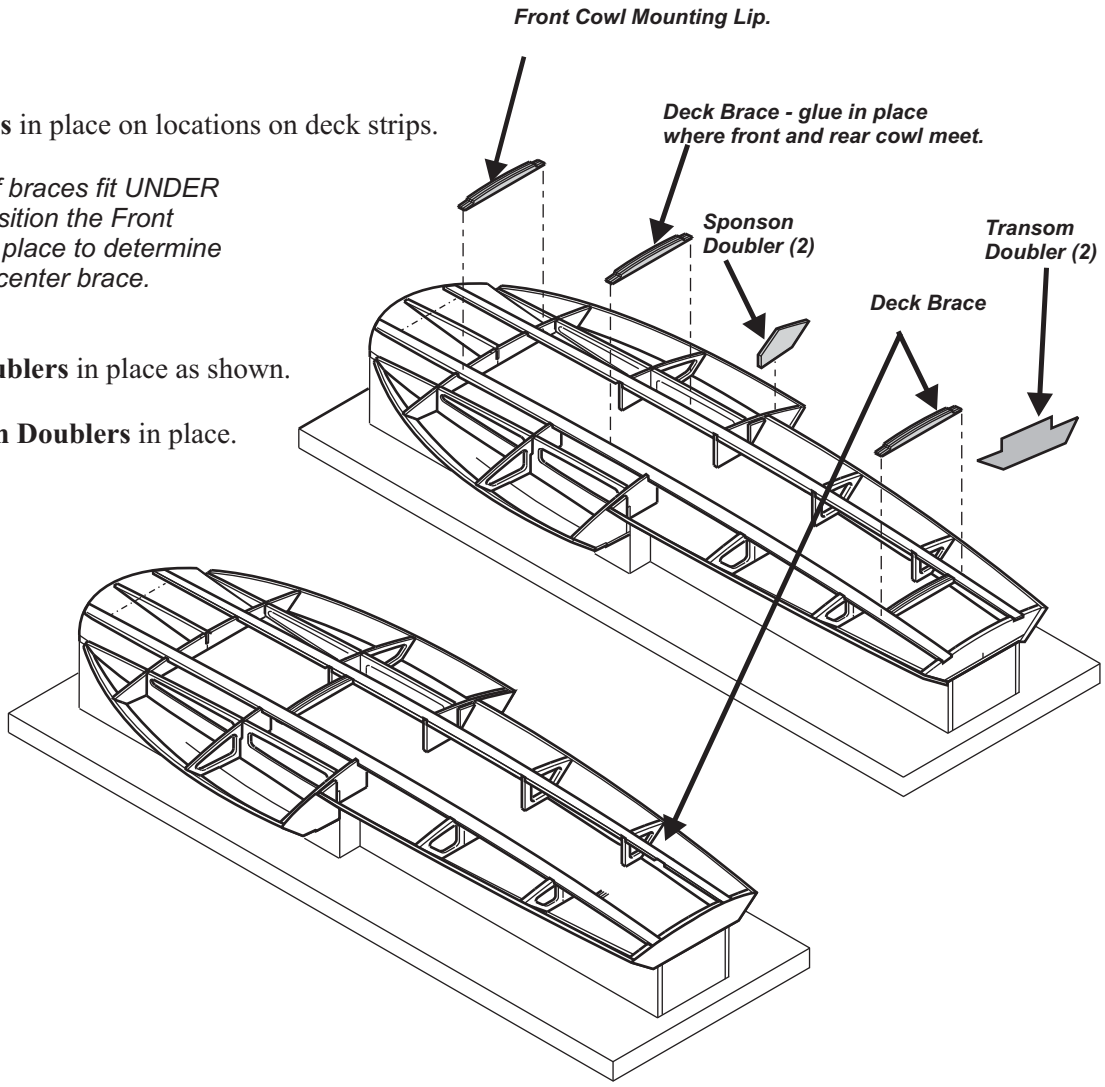
Part 5 - Assemble Deck Support and End Caps

1 Glue **Cross Braces** in place on locations on deck strips.

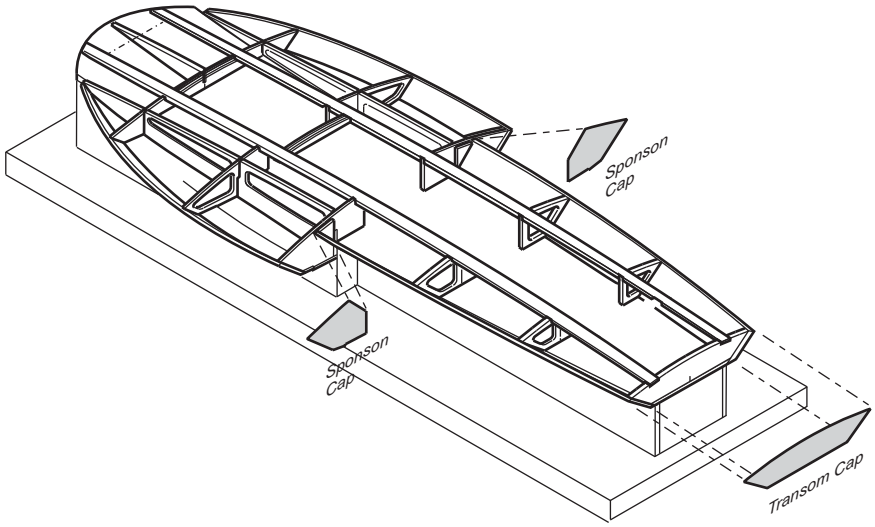
NOTE:*The ends of braces fit UNDER the deck strips. Position the Front and Rear Cowls in place to determine the location of the center brace.*

2 Glue **Sponson Doublers** in place as shown.

Also glue **Transom Doublers** in place.

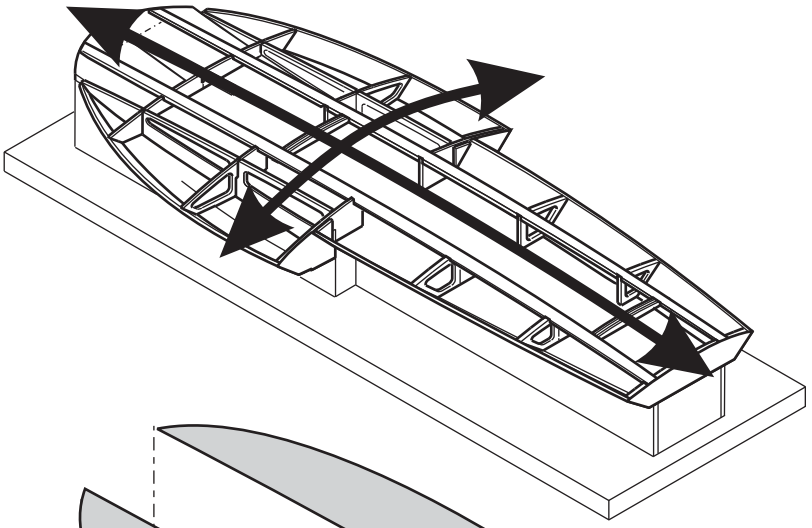


3 Glue **Sponson** and **Transom Caps** in place.

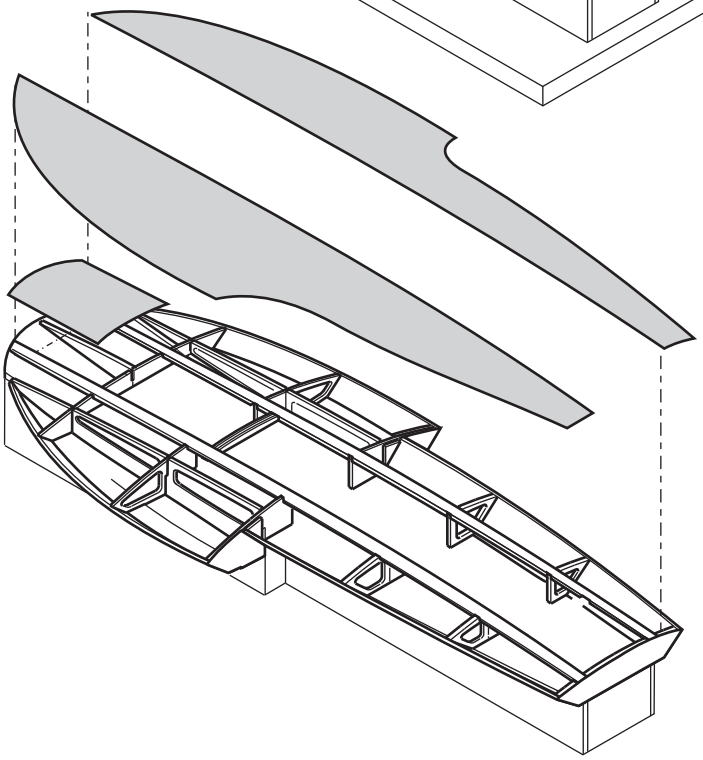


Part 6 - Assemble Decks

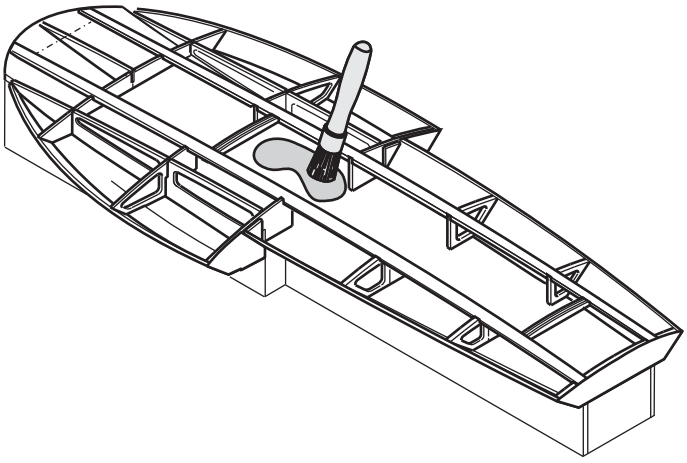
1 Prepare the surface of the structure by sanding to a smooth curves left to right and forward to backward.



Test fit Decks as you go checking for even fit all around.



2 Seal Inside of Hull with thin epoxy or other type of waterproofing. Also add flotation where possible if the hull will be running RC.



Part 6 - Assemble Decks

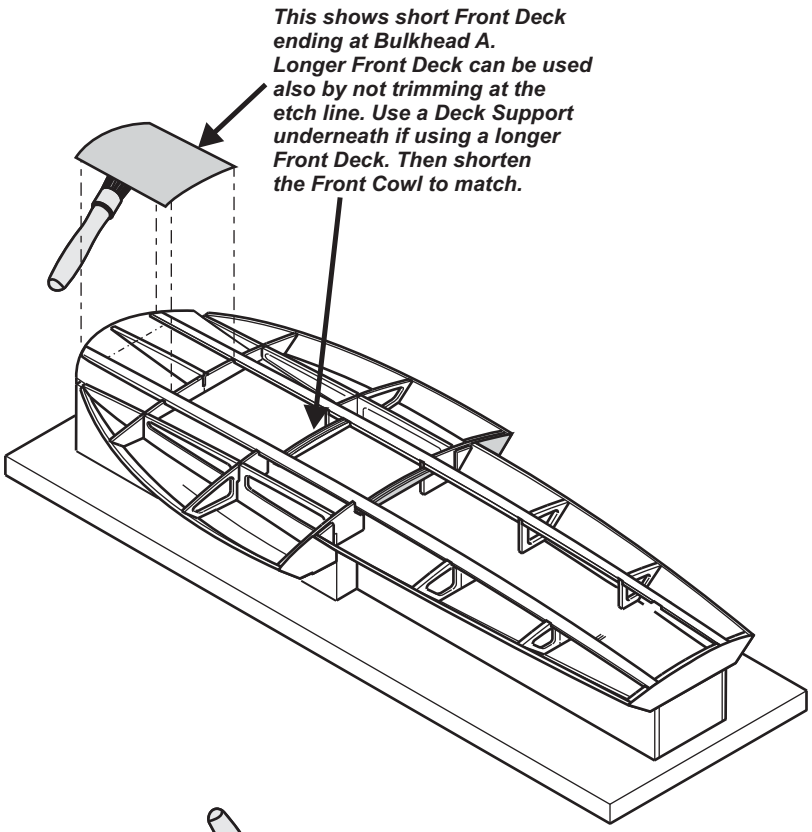
3 **Make sure to seal under the decks before assembly.**

Glue Front Center Deck and Rear Deck in place as shown.

Left and Right edges of decks should be about in the middle of the Decks Strips.

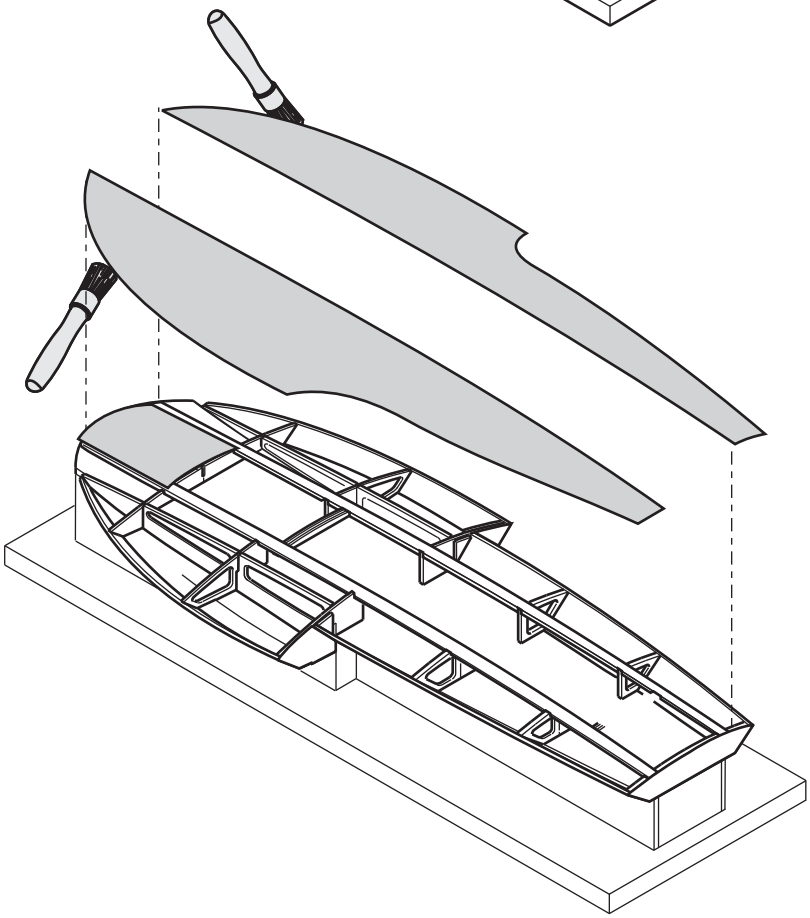
Rear Edge of Front Deck should be in the middle of the Cross-Brace.

Front Edge of the Rear Deck should be in the middle of the Cross-Brace.



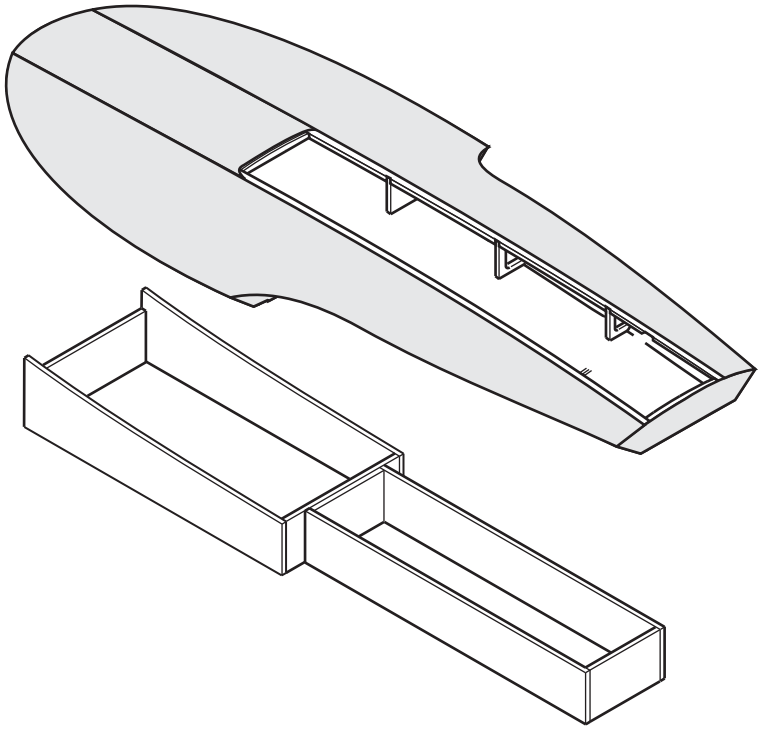
4 **Make sure to seal under the decks before assembly.**

Glue the Deck Sides in place.
The Side Deck sheets have extra material (safety stock) on the outsides that will be trimmed off later.

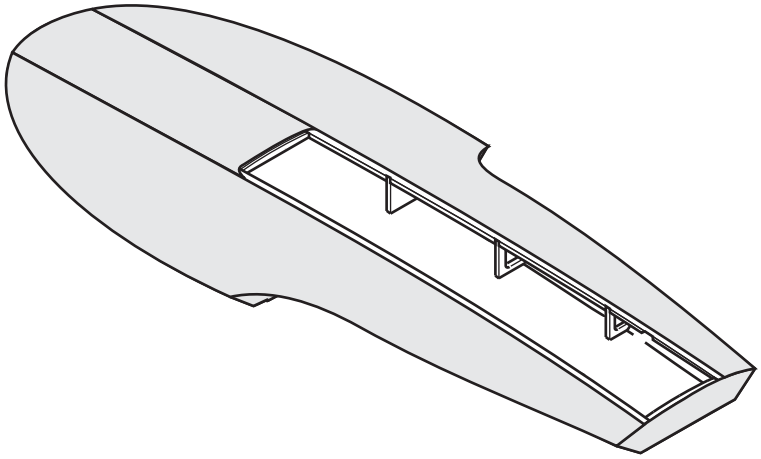


Part 7 - Remove Hull from Jig and Finish

1 Pop the tack glue spots with a thin knife and remove hull from jig.



2 Sand flush deck edges and around transom.



3 (Optional) On bottom of hull, glue Air Traps in place as shown. Best RC performance is without traps.