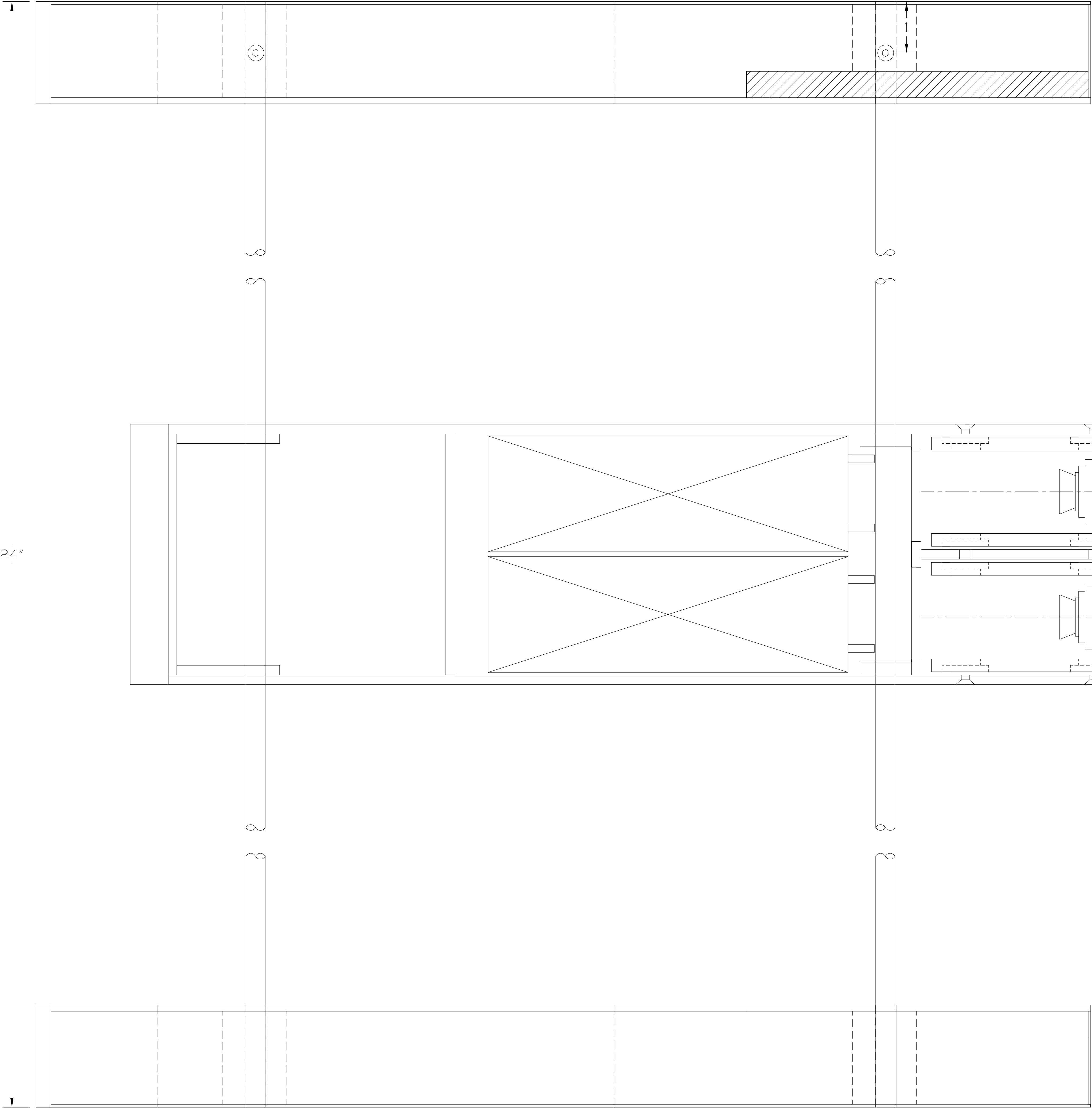
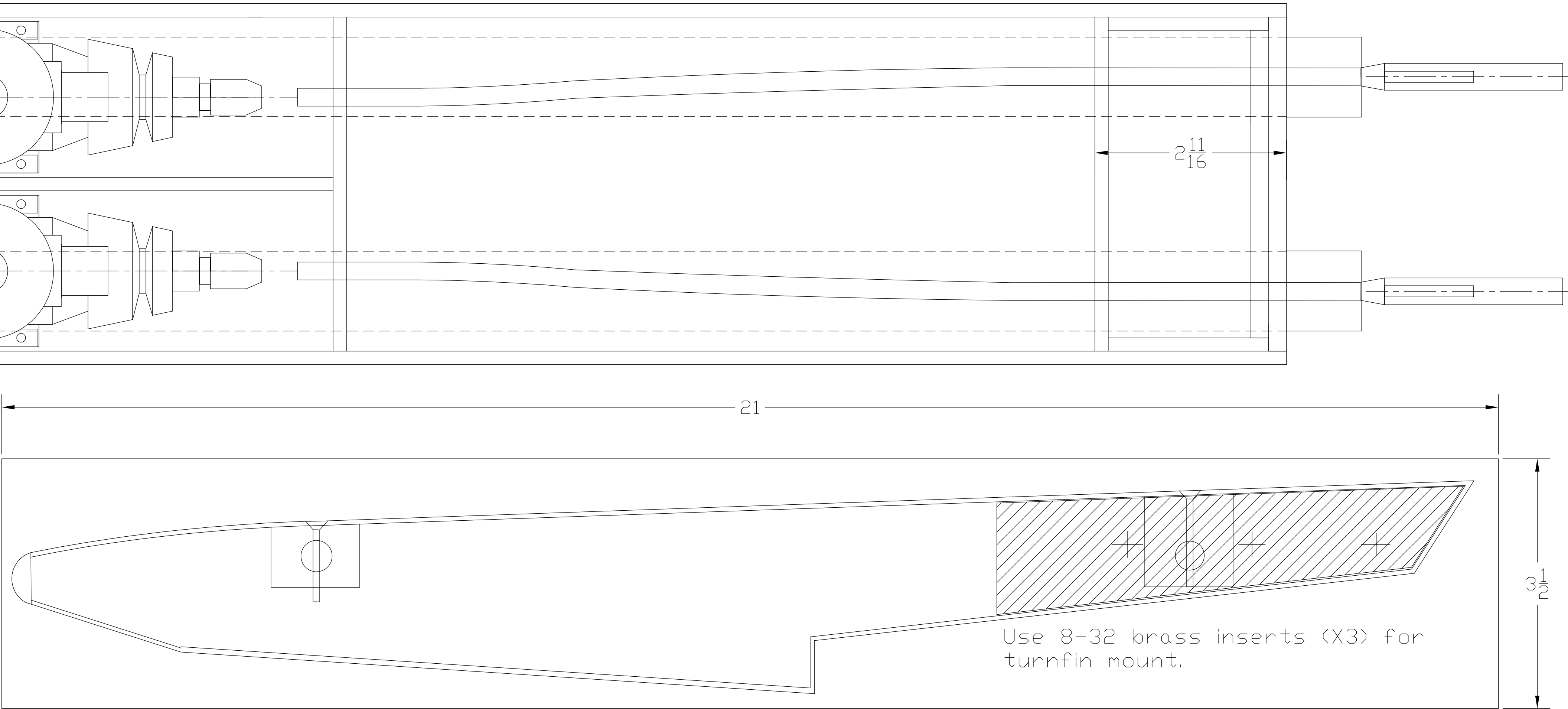


JAE RACING HULLS

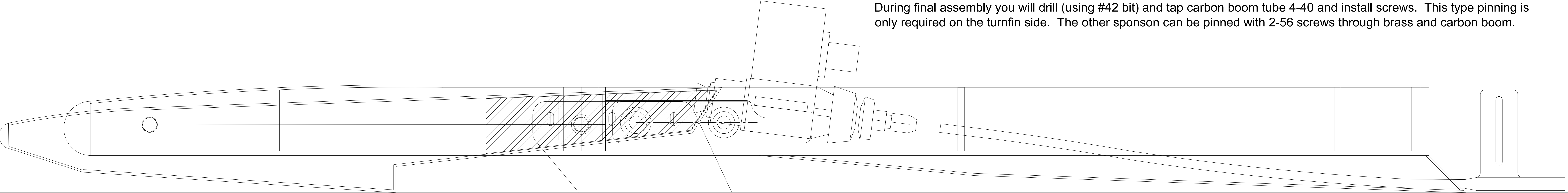
JAE 45 Twin




TUB CONSTRUCTION: Drill all holes in tub sides using template before assembly starts. Dry fit tub sides and bulkheads to ensure everything fits. Assemble tub sides and bulkheads as shown using a long cure type epoxy >30min. Refer to assembly drawing for proper transom and side transom support assembly. The transom and transom doubler is cut out of ¼" birch ply, all other is ⅜" birch ply. Build on a flat surface against a straight fence with bulk heads at 90 degrees. Make sure engine room bulkhead spacing is correct. DO NOT glue center engine support rail in at this time. Make sure tub is square and clamped to fence. When square and flat add weight to tub to hold flat against building jig. Wax paper works well between jig and boat to keep glue off table. Once cured take tub out of jig and clean all excess glue off tub and bulk heads. Place ⅛" birch bottom (one piece for strength) on jig and place tub assembly on top. If all looks OK then glue tub and tub bottom together using long cure expoy. Use weights during cure time to ensure tub stays flat. Sand flush when cured. Now add boom tube doublers and center engine rail. Use ⅜ round shaft to make sure motor mount holes line up when installing center engine mount rail. Glue in your 2 K&S ⅜"ID tubes when gluing in the boom tube supports and sand flush to tub. aluminum ⅜ lock collars work really well on solid carbon rods to hold the boom tubes in place. Cut a piece of foam (using template) to fit front area and glue into place, when dry sand flush. If u have access to a milling machine the top deck can be glued on as a solid piece and openings can be milled to the template. If not cut top deck to template. Install top deck, it should be from a solid piece of plywood. This helps reinforce the joints.



SPONSON CONSTRUCTION: Wood over foam. Build a 21" X 3½" X 2" foam / wood sandwich (X2). ⅛" birch ply on the outside and ⅛" birch ply on the inside. Use sponson template to cut out shape of sponson. Finish sand block to same size as template. Cut pockets for boom blocks and turnfin support. Glue into place. Sand again to fit template. Sheet bottom and top and ends with ⅛" birch ply, sand flush. Hand form nose block to fit. Use drill press to drill holes through the assembly for the K&S brass (⅜" ID brass tubing). Glue tubes in place leaving 1" of extra tube to the inside. On turn fin sponson (BEFORE SEALING AND PAINT) drill and counter sink a 4-40 (1¼" for rear and 1" front) flat head allen through top sheeting, boom block, and brass tubing using a #35 drill bit and a counter sink. Sink screw flush with top sheeting. During final assembly you will drill (using #42 bit) and tap carbon boom tube 4-40 and install screws. This type pinning is only required on the turnfin side. The other sponson can be pinned with 2-56 screws through brass and carbon boom.



SKI CONSTRUCTION: Construct a foam sandwich measuring 1½" X 21" consisting on 1 inch foam and ⅛" birch ply on both sides. Use template to cut 2 skis out of the foam block you made. when sanded to sams size as template, sheet bottom and end with ⅛" birch ply. You will have to cut foam and end to clear stuffing tube. The ski will be the last thing you put on the tub just before you start sealing the wood. The engine and strut will need to be in place when fitting ski.

	JAE Racing Hulls 45 Twin (Heat Racing)			
	CONSTRUCTION AND HARDWARE LAYOUT			
Design by Geraghty, Hall, Zaker, Truex Drawn by David Hall	PLOT SIZE 36×48	FSCM NO.	DWG NO.	REV
	SCALE 1:1			SHEET 1