Building A Dumas Chris Craft Boat RC Model 1938 16' Painted Racer

24" long x 8" wide

This is my 1st Boat Model build. Have ~29 airplane models I made that are hanging from my Man Cave ceiling, most 1/32 scale. The largest wingspan is 38.6 inches! (*See at end of this Doc.*) Also have >50 purchased car models, mostly metal on Man Cave wall shelves.

This was a great model to make as a 1st. This 24" long RC Model is easier to build that their Mahogany finish versions. Some are double planked, 40" long and require more careful build skill. Their product is excellent as are the very detailed instructions with separate booklet of build sketches.

This Doc PDF will provide what I used and added in the way of glues, clamps, etc. As well as what I have done with ~60 similar format: Pics and Long descriptive Captions, r.e. "How To Corvette Mods and Info," where I had trouble, messed up and how I worked around!

It included a few things not covered in the excellent, very detailed instructions that are your option. After a short Overview, I'll start with details of where I made Errors or Deviated from their excellent plans. A Detailed Picture Build Follows.



Background, r.e. Model Boats: Friend and collegue in the Welding Supply business, Tom Pic right, in his Maserati Birdcage. One of 40 vintage cars he owned. Many old race cars he drove at Vintage Races each year. Tom was born the same year as I and died unexpeciatly in 2010. I started my Model Car Collection in earnest at that time. Now have >50 mostly 1/18 scale CMC metal models on shelves in my Man Cave.	
	Tom also had ~40 Vintage boats, many old Race boats. One was 29' long, 1924 Great Lakes Race Boat, "Babby Bootlegger." After seeing most of his full size restored boats and <i>many high quality boat models</i> at his Celebration of Life, I bought a 34" long "Baby Bootlegger" model. You'll see often on the Cris Craft build as in on the chest of draws in my Man Cave, where I built the Chris Craft model.
Have nothing but praise for the Dumas Kit. Arrives well packaged. As suggested, I separated the wood parts and banded like pieces together.	HORB CHARGE IS PAINTEDIRAGER
	In addition to die and Laser cut wood, the two booklets of instructions are great. The instructions are 44 pages and very detailed. But most impressive is the companion booklet that is 20 pages with Figures, most sketches, referenced by number in the instructions. They SHOW what the words often cannot fully convey. YOU MUST USE BOTH. Errors occurred when I didn't!

The 44 Page instruction booklet is great. Very deatiled. Steps numbered 1 thru 277. There is also a full sacle detailed print_side and top l

detailed print, side and top I referenced often.





And many steps are matched with Sketches on a separte 20 page foldout booklet. Each numbered build step is referenced to a numbered sketch where needed. Only minor trouble I got into was when I did not check the sketch carfully (or occsionally, not at all!)

Starting with Errors and Diviatiions From Plan





One deviation was the rear seat assembly. The instructions show attaching the seat back to bottom using 1/16" copper wire bent as they show. However, that left too larger a gap between back and bottom. Also, no way to attached except glue to the rear hatch. Bought small ¼" diameter thin magnets. Inserted in seat back using a 3/8-inch Forstner drill bit. Then used a ¼ inch Forstner drill bit. Then used a ¼ inch Forstner drill to insert magnets in the front end of the rear hatch. Works great Did the same with the front seat. Added

magnets to Forstner bit recess in back of seat and in the cross member behind.

Ordered on Amazon 6mm X 2mm. 100 Rare eath Magnests for \$10



Also used the magnets to keep the front and rear hatch secured when the boat is moving and bouncing on the water. Used wood to shim the back of the hatches on the sides and glued magnets to the shims. Attached with medium thickness Instant Glue.

Made triangular 1/8" thick wood brackets and glued to the top sides of the Hull. Plenty of excess wood I Kit. Held in place with clamps while glue dried. Then to account for height discrepancies attached those magnets with thick JB Weld. That allowed the magnets, separated by wax paper so no glue attached to both, to press into the JB Weld. That make up for any excess gap.

One "trick" found in another assembly video was installing the Upper Rub Rail. Rather than try to meet at the Blow, extented the 1^{st} side a $\frac{1}{2}$ to 1" extra. When that Instant glue has dried, bent the extended end around the bow. It bends easy. As with the sides, held in place a minute using wax paper. Then put the pieces on the other side. Cut all ends at an agnle then the mating piece the oposite anlge.

One thing I also did, seeing all the cautions about problems painting the Rub Rail silver, just kept white as supplied! Matched the paint scheme perfectly!

Followed instructions and made cardboard templates for the windshield. When fit was perfect used a glue, I found useful in several places, Gorilla Clear Grip. It works on Plastic. Like contact cement, apply to both sides and wait a few minutes before attaching, Does take time to fully cure.



Tried the method in the instructions to make the edging for the front cockpit. Made the fixture as described. Put the slit for an X-Acto blade offset as suggested (*frankly not sure why it was offset!*)

Then instead of a single X-Acto blade I used a safety razor blade. Instead of glue I used a clamp to hold it in place. Looked like it was working so pulled the whole soft very heavy wall Neoprene tubing thru.

Safety razor blade had slipped down and cut the bottom as well. It was in two pieces! Oops!

The only similar diameter tubing I had was thin wall shrink tubing. I cut a slit on one side with sharp, small sissors. That is what I should have used with the Neoprene tuibing!

Only issue, it buckeled around the corners. So cut 3 staright pieces and glued them in place on sides and front. Then cut two small corner pieces at a miter so they fit in the corners. Looks OK.



The Build: Following Instructions

Need to build on a board. Mine was 30" X 14". Could have been smaller. I followed the recommendation and stappled the two deck pieces to the board. Also used 5 Minute Epoxy to join the three joints.

Used weights to also hold in place.

(There is that model of my friends "Baby Bootlegger!")



Need lots of clamps. Bought these from Amazon. 30 pieces, 3.5" for \$13.



The parts are well made and need little sanding at this stage of installing the internal rib structure. I used their recommended medium thickness Instant Glue. Bought thin glue as well BUT seldom used.





Bought 12 of these 4" bar clamps from Amazon for \$20. Had all in use at one point! Also uses wood clothespins and Black Binder Clips. This was an interesting way I found to do Balsa wood "planking." Used the 4" bar claps in the rear, and the Medium Thick Viscosity Instant Adhesive, CYAFIXED brand I bought from Amazon. Note, I wondered if I needed the two 2 oz bottles I bought initially for \$16. Wound up buying a 3rd 2 oz bottle! Great stuff!

As the front hull curved, I found using clamps to weigh the plank and at times a weight (note the *"shift knob paper weights*" I have on my desk worked great!





I elected to use the optional horizontal placement of the planks at the bottom bow, rather than longitudinal. Worked fine. Bondo will take care of making the shape smooth, after sanding.





Time for some Bondo. Particularly for the bottom bow.

Areas on the side and stern needed Bondo as well. Bought the "original' Bondo from Amazon: \$16 for 1 ½ lb with hardener.

Rear Hatch Planked. Coated inside as suggested with Epoxy, diluted 15% with denatured Alcohol.

I bought Bob Smith slow cure on Amazon 9 oz for \$21. Used tape, a wall and 10 lb weight to maintain pressure on side planks at bow as the glue cured.



Top Balsa Wood Planks were next. Used clamps to hold in place while glue cured.









Trimmed cured fiberglass with 60 grit sanding sponge. Easy. Did cut the cockpit openings front and rear with single blade safety razer blade. Then used sandling sponge.



After 100 grit, finished with 150 grit







Wet sanded with 150 grit. Most of the putty came off, only material in depressions left.

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I decided it was easier to mount the motor on the motor supports BEFORE I used 5 Minute Epoxy to join them to the hull. Worked but could have done it as suggested mounting the motor block supports 1st. Just harder to assure alignment when drilling the holes for the 4 screws.



Drilled the two 7/32-inch holes and cut the bottom for the "Stuffing Box"



"Stuffing Box" was secured in place by "tacking' with spots of 5-minute epoxy, Used the hose coupling supplied to align motor with stuffing box.





The Skeg was Epoxied in place. Then a triangular piece of fiberglass was placed over the Stuffing Box tube and Skeg. Bob Smith Epoxy was brushed onto the fiberglass.

Mounted the brace for the steering servo as instructed. As noted, I used JB Weld to assume a leak proof seam on the Brass rudder tube





Bent the brass rod steering control arm to their print. I will adjust, if needed, when on the Lake to be sure it goes straight when control is in neutral position. I screw visible on top holds the steering arm and can easily be adjusted if needed.











Initially had error on how connections were made to receiver. Connection 3 NOT USED. Connection 2 to throttle servo Connection 1 to steering servo Connection "B" NOT USED

All Connection Plags Fit. Only confusion was included wire with sw like could extend Serve Wires. CANNOT. It's not used.

Battery attached to bottom hull using Velcro over added 1/8" planks.





Overall wiring is very neat. The power switch attached to side E. S. C (Electronic Speed Control) is readily accessible when front hatch is removed. Marked OFF position with small sticker.

Attached Hardware using JB Weld. Takes a day to fully cure but compared to 5 Minute epoxy holds stronger to paint and metal. Also, the 30-minute cure time gives part, time to be properly aligned using thin blue painter tape. I make an error in the Bow Light! I placed the fitting that was to hold the flag and be further back, on the Bow.





Error occurred, partly because I did not want to use a front flag BUT mostly by mistake. Looks fine.

1st attached the hatch handles 6 base posts to two-sided tape on cardboard. Then used 5 Minute Epoxy to join the 1/8" aluminum tubing sections to the base posts. Also inserted pins (in my case with small round heads) into the ends of the tubes with epoxy. When fully cured cut carboard and tape so each base was separate and peeled away. Attached handles to hatch with JB Weld.



One of the last things to install was the Cut Water. It helps water split at the bow. Made pattern from paper using what was supplied (lower Pics.) Found it was longer than I thought best. Shortened (upper Pics are adhesive cover paper removed from the 0.002" aluminum supplied. Slit the 1st side as shown. Used round pencil eraser and smooth pencil body to make both adhere.

Smoothing the aluminum with a mechanical pensile eraser and round plastic pencil. That removed 95% of the wrinkles. Would not want the Cut Water going any further under the Hull.







Then thought why not build a model plane that used the R2800 (which is 2800 cid.) At the start of the War, it was rated at 1800 hp. By War's End If being pursued by an enemy plane the usable hp was 3,400 hp! That was achieved using boost normally only allowed at altitude and water-methanol injection. BUT IF used, the engine had to be rebuilt. But you were alive to have that done! Funny, bought a NOS sparkplug for ~\$10 in the original sealed package. It has 4 ground

the original sealed package. It has 4 ground electrodes like some advertised today! Those engineers knew what they were doing.

That lead to building more WWII Planes. Many using air cooled radial engines. This is the largest plastic model plane made. It's by HK Models and this B-17 Flying Fortress has a wingspan of 38.6 ".



video of this somewhat tedious build:

oTUs

This is a Doc as PDF:

Airplane.pdf

Brothers 1st plane the Write Flyer. I made a

https://www.youtube.com/watch?v=A5mA2c-

http://netwelding.com/Wright_Brothers_First_



This is the 1st Plane to bomb Japan. Jimmy Doolittle B-25 Raid! Also, a B-52 and a recent addition a WWI Sopwith Camel. The Plane Snoopy Use to shot the Red Barron





Found the pilots (like Snoopy) had that long scarf because the rotating air-cooled radial engine cylinders (crank fixed) used castor oil as a lubricant mixed in gas. Was getting over their goggles so the long scarf was used to wipe them clean. They also all had diarrhea!





The CH-47 Chinook helicopter can lift 50,000 lbs. Saw a Pic of it carrying a Swedish Bandvagn 206 snow and ice vehicle so made both. The Apache is what my friend's son flies for the SC National Guard.