



JAZZ BABY

A 12-Foot Multi-Purpose Boat

"JAZZ BABY" is an accomplished portable outboard runabout performing all its tasks well. Outstanding features of this multi-purpose boat are: easy rowing, trim design, ability to maneuver well with small outboard motors, portability, and surprisingly high speeds with motors of 6 to 15 hp. Built-in beveled chines make this boat unusually safe while a new type bottom assures satisfactory operation at low or high speeds.

Constructed of waterproof marine plywood, the hull is easy to build, light in weight, and permanently leak-proof. The boat is seaworthy and stable. It is easily transported anywhere.

The form on which the hull is constructed is sawed from a 2" x 6" x 10" piece, mounted on legs similar to a saw horse.

Draw full-size paper patterns of the frames, transom, and stem. Lay the patterns for these parts upon the material and prick through the outlines. Saw the various parts to shape and return all of them to the patterns for final assembly.

Fasten frame joints with 1½" No. 8 f.h. screws, first coating all adjoining surfaces with marine glue.

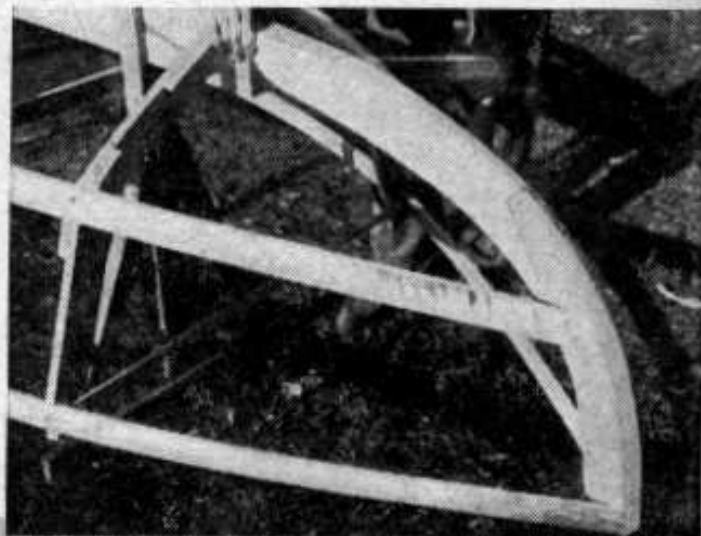
Construct the transom with two widths of ¾" lumber, jointed in the center, or use one piece of ½" marine plywood. Cut the transom to shape and secure a motor-

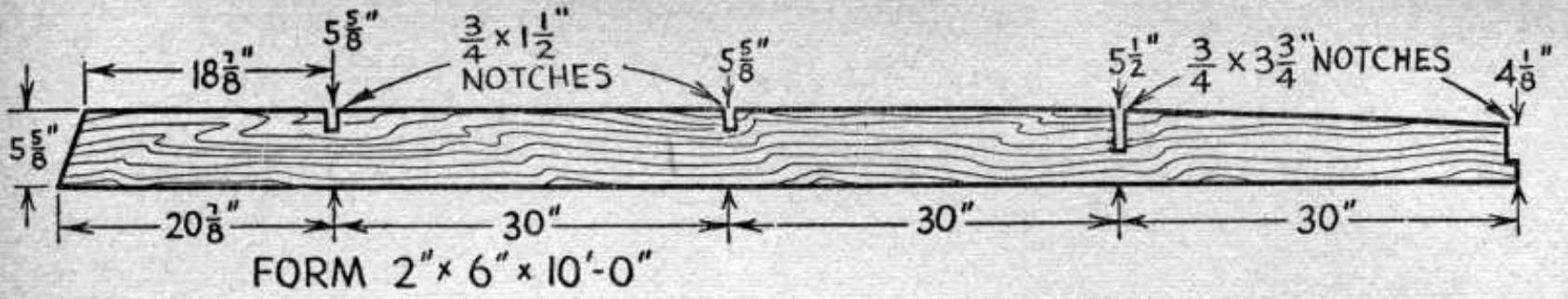
Stem, chines, inwales, and keel must all fit snugly together at the bow. Skillful workmanship is absolutely necessary.

Craft Print Project No. 113

FEATURES: Easy rowing. Maneuvers readily on small outboard motor. Capable of high speeds with motors of 6 to 15 hp. Unusually safe at high or low speeds. An excellent all-around boat for fishing or speed.

TYPESemi-vee bottom
 LENGTH12 ft.
 BEAM52 in.
 DEPTH24 in. amidship
 WEIGHT150 lbs.
 SEATING CAPACITY.....4 or more persons
 MATERIAL.....Marine plywood, etc.



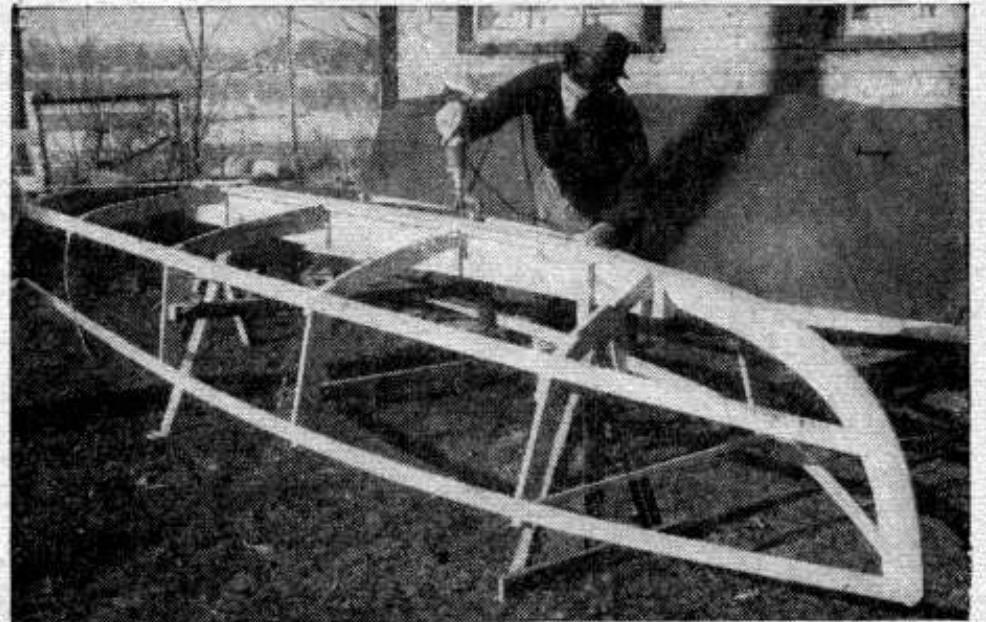


board and frame around the outer edges as indicated in the plans, glueing and screw fastening in position.

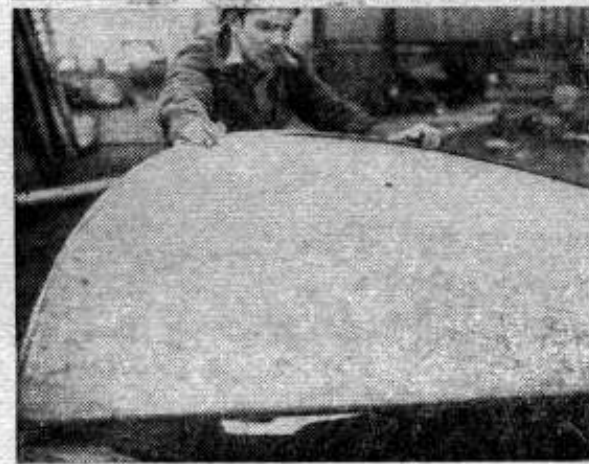
The stem may be cut in one piece from a wide width of lumber, or it may be made in two pieces as shown, joined securely with a 1/4" carriage bolt and screws. Bevel outer edges of the stem and cut notches for the keel, chines, clamps, in all the frames including the transom.

Install frames, transom, and stem on the form, holding parts in place with clamps and wood strips. Begin by attaching the 3/4" x 3 3/4" inner keel to the frame notches and stem with two 2" No. 8 f.h. screws to each joint. Taper the inner keel from full width at frame No. 2 to 2" width at stem joint. The 3/4" x 2" outer keel, or keel apron, is now attached to the inner keel with 1 1/4" No. 8 f.h. screws, spaced about six inches apart. Later taper this outer keel slightly before the planking is applied to the bottom.

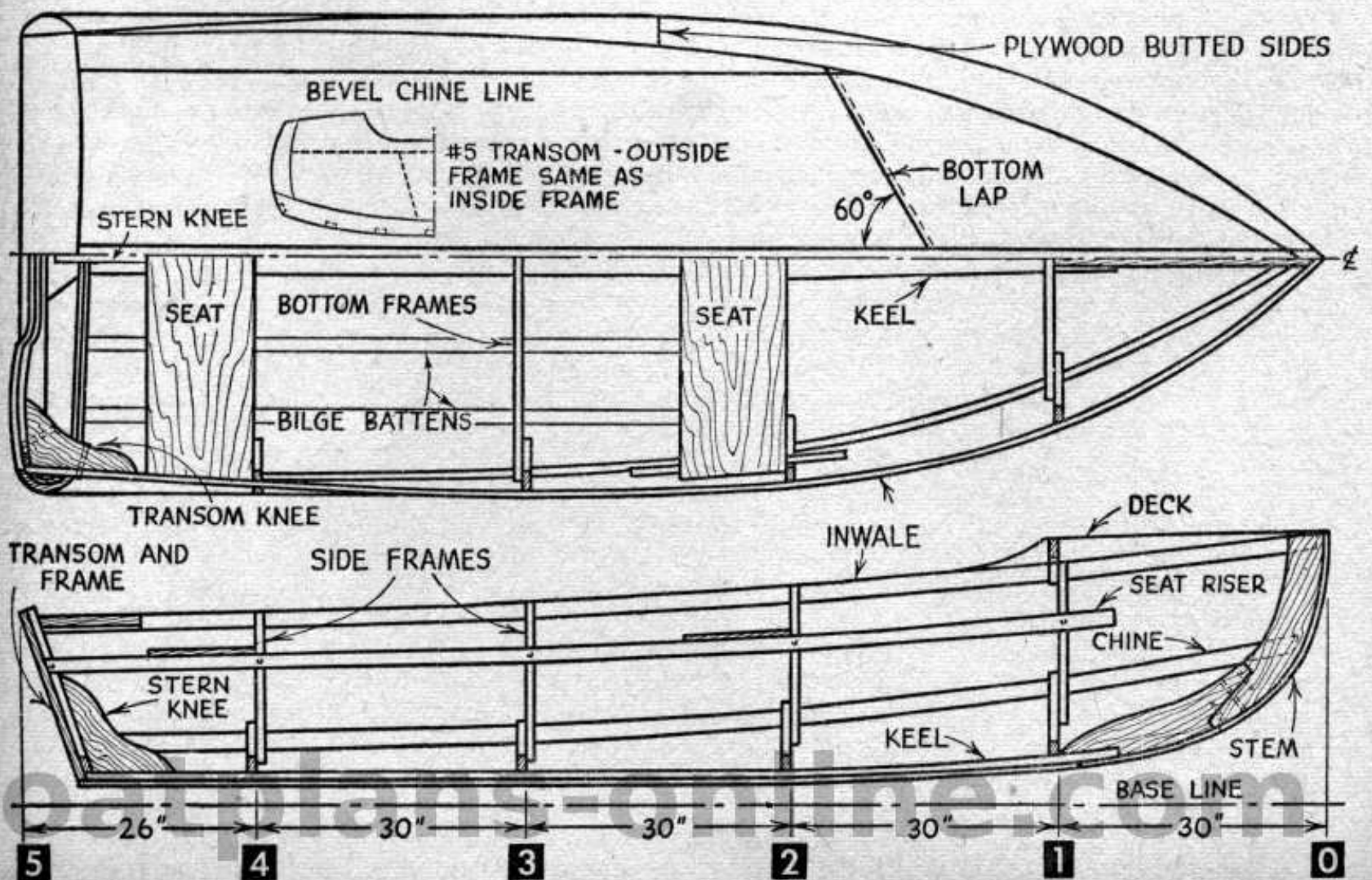
Clamp chines in place to frame



An electric drill speeds up the work of setting and fastening in place all parts of the frame work.



Forward bottom planking is put on first. Both pieces overlap the long pieces running back to the transom.

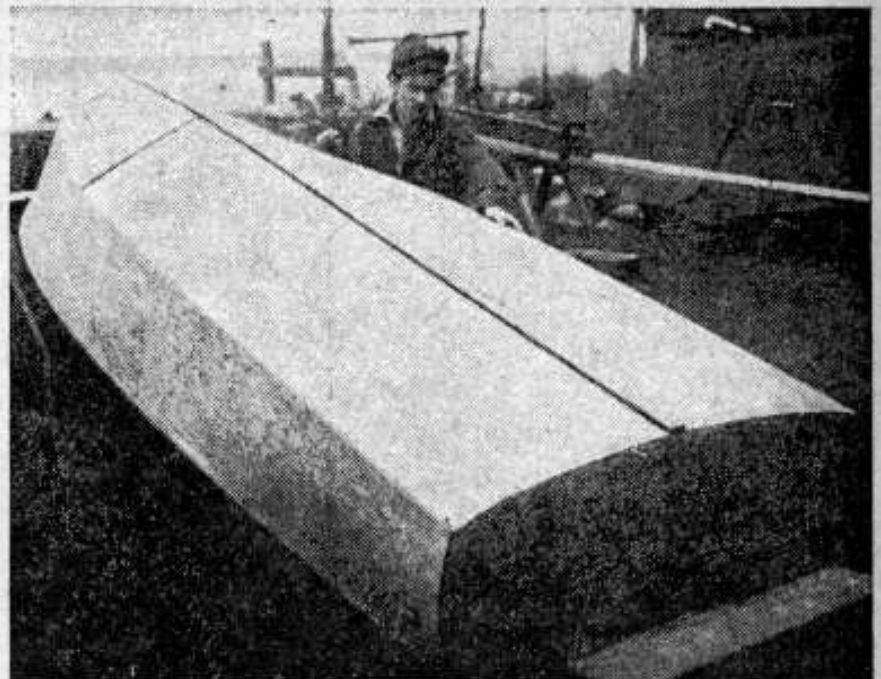


MATERIALS LIST—JAZZ BABY

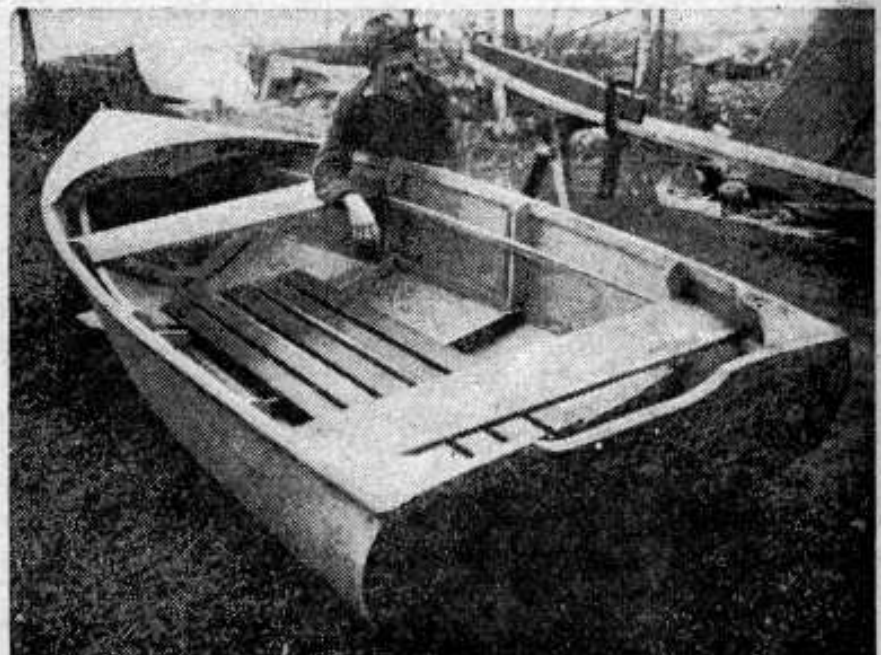
Parts	Pieces	Finished Sizes
Form	1	13/4" x 53/4" x 10'
(Any common lumber for above)		
Frames:		
Sides	1	3/4" x 33/4" x 14'
Bottoms	1	3/4" x 113/4" x 12'
Motorboard	1	to size desired
Knees	3	to size desired
Keel, Inner	1	3/4" x 33/4" x 10'
Keel, Outer	1	3/4" x 2" x 10'
Chines	2	3/4" x 17/8" x 12'
Clamps, or Inwales	2	1/2" x 13/4" x 14'
Bilge Battens	4	3/4" x 11 1/2" x 6'
Deck Beam	1	3/4" x 53/4" x 3'
Deck Center Strip	1	3/4" x 11 1/2" x 3'
Seat Risers	2	3/4" x 11 1/2" x 10'
Seats	1	3/4" x 113/4" x 8'
Moulding	2	3/4" x 1" x 14'
(Mahogany, oak, fir, yellow pine, cypress, white pine, redwood, for above parts.)		
Stem	1	13/4" x 10" x 3'
Outside Stem Piece	1	1/2" x 11 1/4" x 3'
(Oak, ash, elm, or yellow pine for above)		
Transom	1	1/2" x 24" x 54"
or	1	3/4" x 113/4" x 10'
(Marine plywood for above)		
Planking:		
Bottom and Sides and Decking	3	1/4" x 4' x 8'
(Marine plywood for above)		

MISCELLANEOUS

- 3 dozen 1/2" No. 8 f.h. screws
- 3 dozen 3/4" No. 8 f.h. screws
- 4 gross 1" No. 8 f.h. screws
- 6 dozen 2" No. 8 f.h. screws
- 4 dozen 1 1/2" No. 8 f.h. screws
- 4 dozen 1 1/4" No. 8 f.h. screws
- 4 carriage bolts for stem, 1/4" x 4 1/2", and stern knee
- 1 pound of 1 1/4" gal. shingle nails
- 1 pint of marine glue

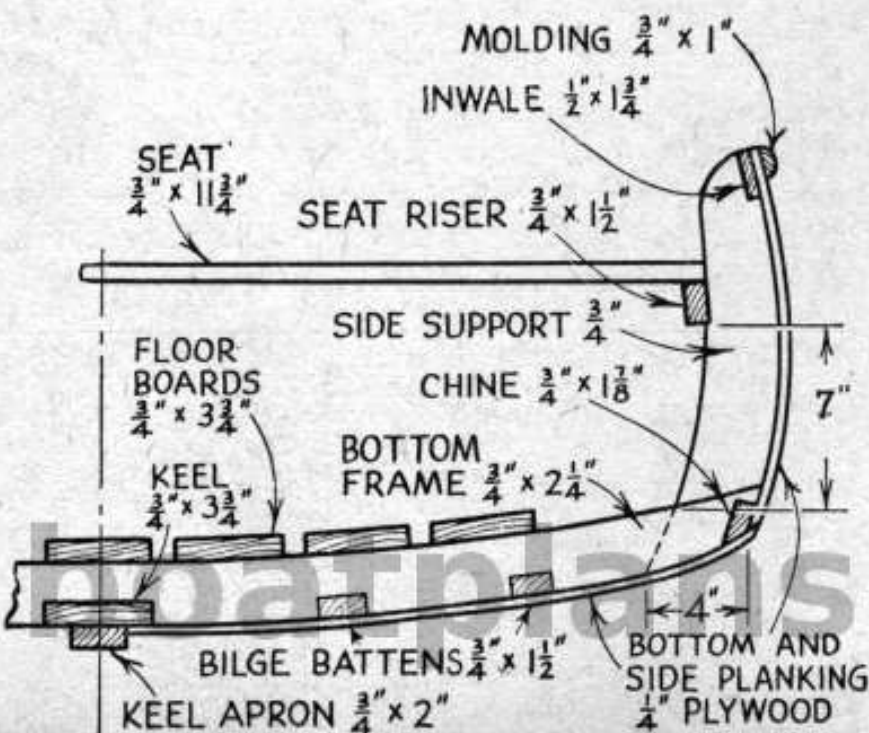


Showing the two long bottom planks, each cut to a 60-degree slant. Nearness of camera to stern makes transom seem unduly large.



A strongly built transom, well braced with stern and transom knees, will take the vibration of small or large horsepower motors.

notches and starting at the transom work forward beveling ends to fit the stem and fastening each joint with one 2" No. 8 f.h. screw. The 1/2" x 1 3/4" clamps or inwales, are sprung into place working forward toward the stem where the ends are beveled to fit the side of the stem. Each joint is fastened with one 1 1/4" No. 8 f.h. screw. At this point notch in the 3/4" x 1 1/2" bilge battens midway between the keel and the chines. These two pieces extend from the transom to No. 2 frame. Fasten them in place with



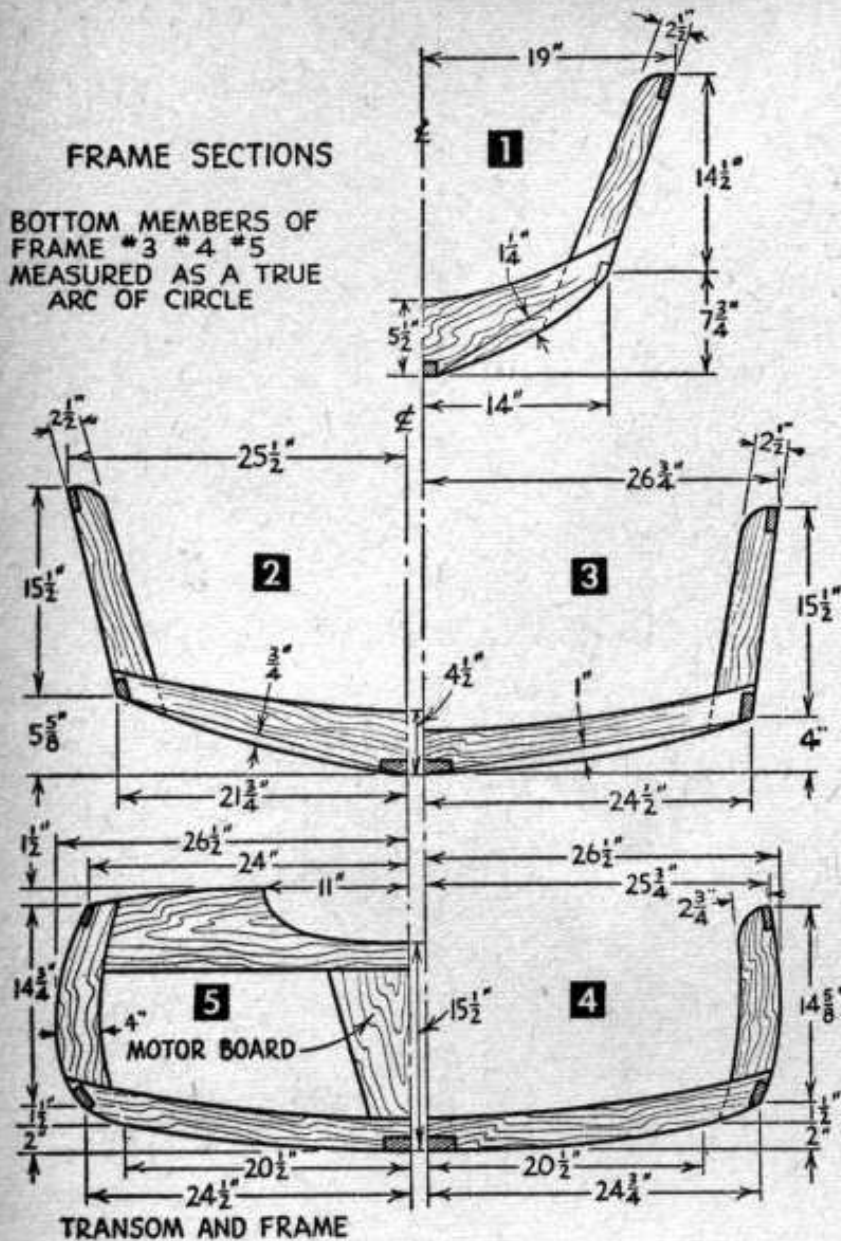
2" No. 8 f.h. screws. Set all the screws firmly.

The entire framework should now be trimmed and faired so that the plywood to be applied will lie evenly at all points.

The bottom planking is applied first. This plywood is attached in two pieces each side of the keel. The after piece of plywood, each side of the keel, is 8 ft. long. The forward end of this plank is cut to slant aft at a 60 degree angle, while the edges of this slanted plank are notched flush into chines and keel.

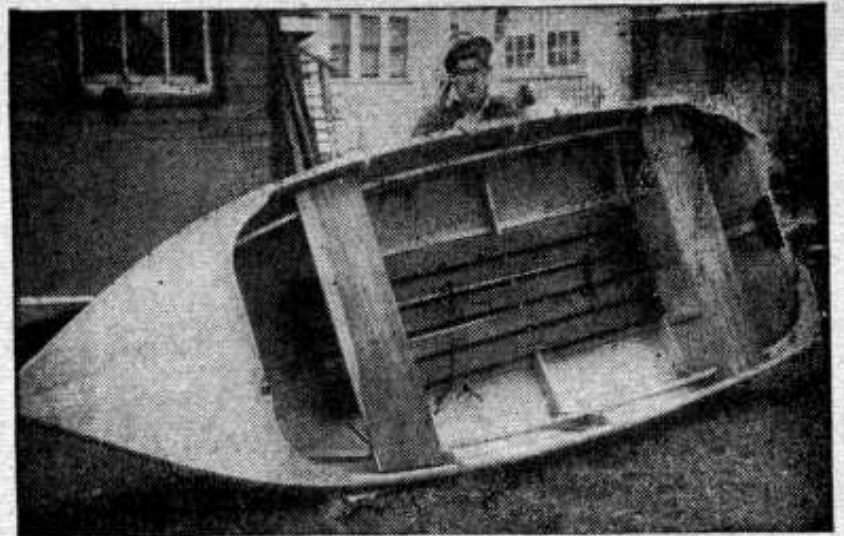
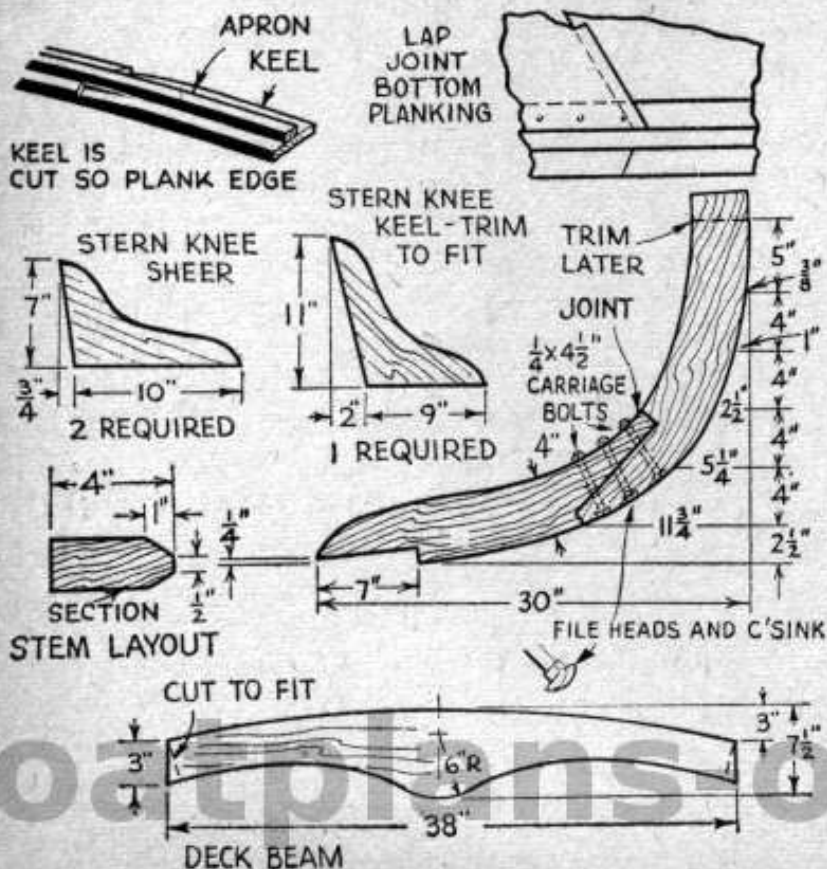
The forward bottom piece of plywood overlaps the aft piece about one inch. So as to bend them readily, soften the forward pieces with hot water. Fasten all planking in place with 1" No. 8 f.h. screws spaced about 2" apart, first drilling lead holes for all fastenings. Before fastening the plywood in place, coat all adjoining surfaces with "C" quality marine glue, lay cloth strips upon the glued area, recoat, and screw to place. Fasten the plywood lap joint with 1/2" No. 8 f.h. screws, first coating the lap edges with marine glue.

The sides are attached in similar manner, except that the joint of plywood amidships is simply



butted and a 1/2" x 6" butt block is placed on the inside of the butt joint. It is secured with 3/4" No. 8 f.h. screws. The after ends of plywood attaching to the transom are softened with hot water and are screwed into position. Fasten the plywood to the inwales with 1 1/4" galvanized shingle nails clinched on the inside of the hull.

Trim planking evenly along the edges and cover the exposed edges along the stem with a 1/2" x 1 1/4" x 36" outside stem piece, bent and fastened in place with 1" No. 8 f.h. screws. Turn



Plenty of capacity, whether used for pleasure or work, is sure to make the "Jazz Baby" a popular boat on any water.

the hull over, remove the form, and install the transom knees and the stern knees. These are cut to the desired shape and are fastened in place with six 2" No. 8 f.h. screws to each knee.

The 3/4" x 1 1/2" seat risers are now sprung into place and fastened to the frames with 2" No. 8 f.h. screws. Install the 3/4" x 11 3/4" seats, attaching them to risers with 2" No. 8 f.h. screws. A deck beam with a 2 3/4" crown is now screw fastened to No. 1 frame. A 3/4" x 1 1/2" center batten is notched into the beam and stem, and the 1/4" plywood decking, applied in two pieces, is clamped in place and attached to the beam, inwales, and battens with 1" No. 8 f.h. screws spaced about 3" apart.

The final job is attaching the 3/4" x 1" mouldings. Fasten with 1 1/2" No. 8 f.h. screws spaced 8" part. The floorboards of 3/4" x 3 3/4" material are screwed to the frames.

Apply a coat of equal parts turpentine and linseed oil to the inside and outside of the hull and finish by painting or varnishing three coats in any desired color combination. A suggested color scheme is a green bottom, white sides, light gray interior, with varnished seats, deck, floors and rails. Oar locks, a pair of oars, and a mooring eye forward complete the building of the "Jazz Baby."

In building the "Jazz Baby", or any of the other boats described in this book, it behooves the builder to conserve all kinds of material in every possible way. If used material can be used again in building this boat without impairing its sea-worthiness, and if used hardware or fittings can be used again, by all means do just that, as a real craftsman should always do. You will also find that "Jazz Baby" is not averse to doing some real work. Mother may find it handy to take shopping across the lake or bay.

● Craft Print No. 113 in enlarged size for building Jazz Baby is available at \$1. SPECIAL QUANTITY DISCOUNT! If you order two or more craft prints (this or any other print), you may deduct 25¢ from the regular price of each print. Hence, for two prints, deduct 50¢; three prints, deduct 75¢, etc. Order by print number. To avoid possible loss of coin or currency in the mails, we suggest you remit by check or money order (no C.O.D.'s or stamps) to Craft Print Dept. 212, SCIENCE AND MECHANICS, 450 East Ohio Street, Chicago 11, Illinois. See coupon on page 192. Now available, our new illustrated catalog of "196 Do It Yourself Plans," 10¢. Please allow three to four weeks for delivery.