

# M-15 SAILBOAT

## A SIMPLE 15" LENGTH POND BOAT

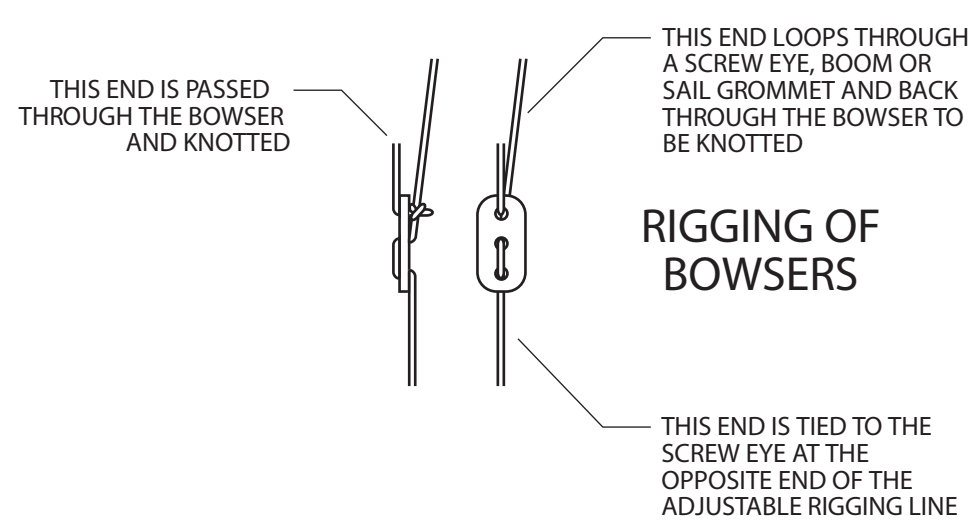
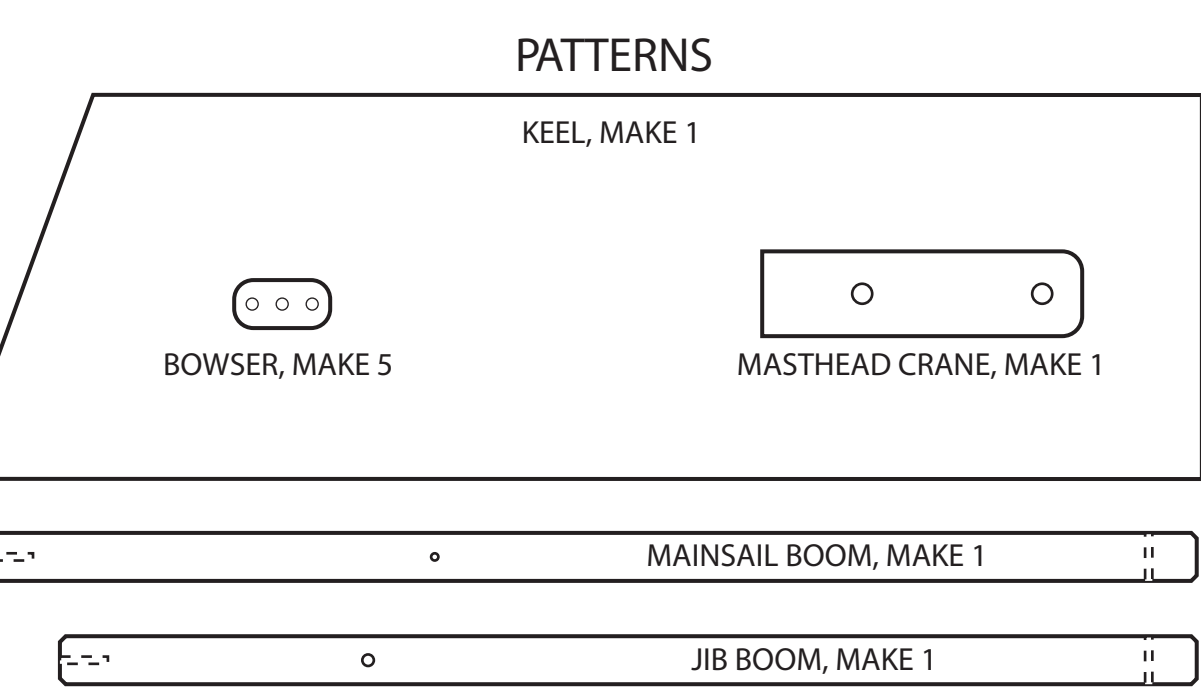
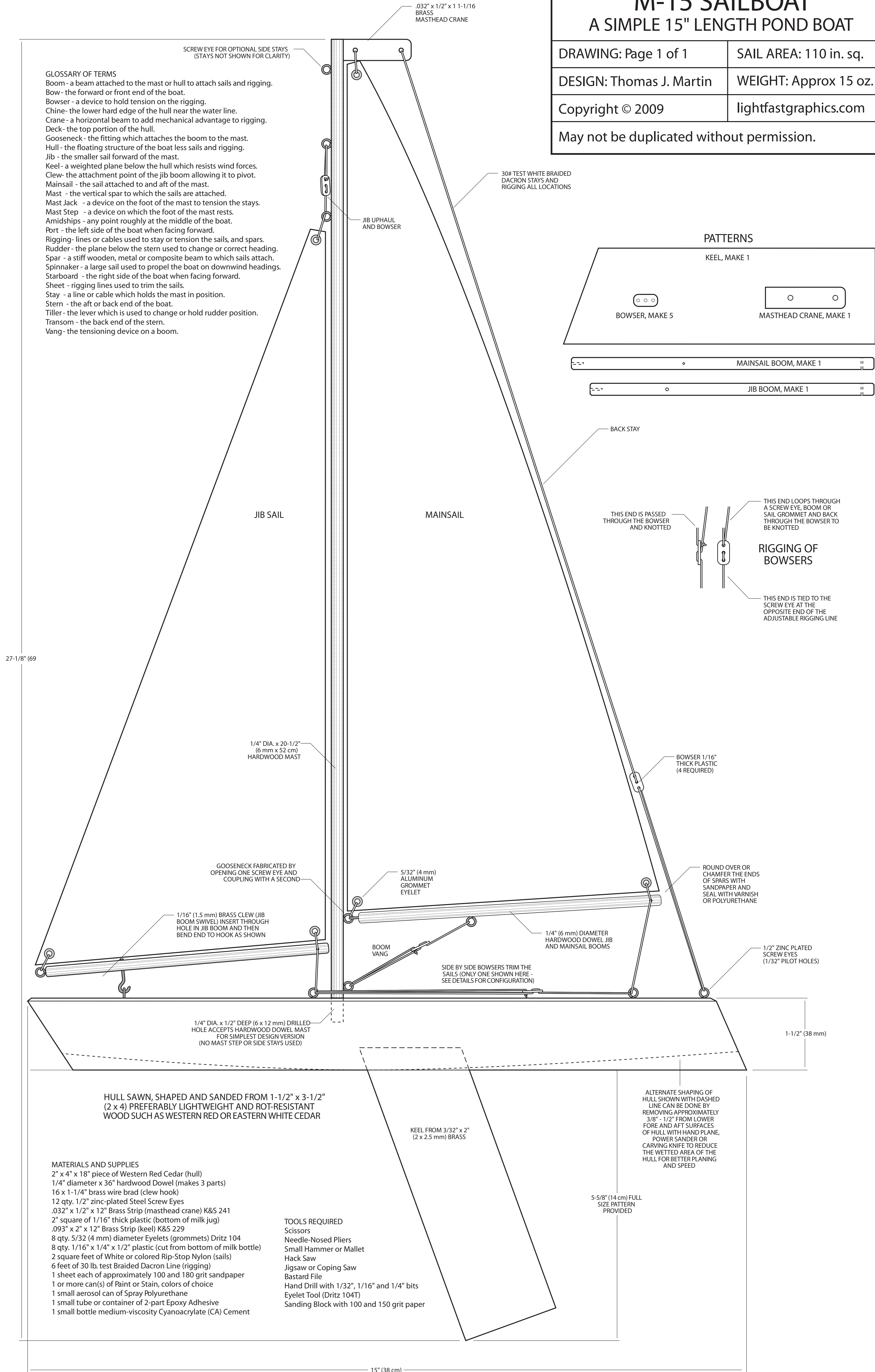
DRAWING: Page 1 of 1      SAIL AREA: 110 in. sq.

DESIGN: Thomas J. Martin      WEIGHT: Approx 15 oz.

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**GLOSSARY OF TERMS**  
 Boom - a beam attached to the mast or hull to attach sails and rigging.  
 Bow - the forward or front end of the boat.  
 Bowser - a device to hold tension on the rigging.  
 Chine - the lower hard edge of the hull near the water line.  
 Crane - a horizontal beam to add mechanical advantage to rigging.  
 Deck - the top portion of the hull.  
 Gooseneck - the fitting which attaches the boom to the mast.  
 Hull - the floating structure of the boat less sails and rigging.  
 Jib - the smaller sail forward of the mast.  
 Keel - a weighted plane below the hull which resists wind forces.  
 Clew - the attachment point of the jib boom allowing it to pivot.  
 Mainsail - the sail attached to and aft of the mast.  
 Mast - the vertical spar to which the sails are attached.  
 Mast Jack - a device on the foot of the mast to tension the stays.  
 Mast Step - a device on which the foot of the mast rests.  
 Amidships - any point roughly at the middle of the boat.  
 Port - the left side of the boat when facing forward.  
 Rigging - lines or cables used to stay or tension the sails, and spars.  
 Rudder - the plane below the stern used to change or correct heading.  
 Spar - a stiff wooden, metal or composite beam to which sails attach.  
 Spinnaker - a large sail used to propel the boat on downwind headings.  
 Starboard - the right side of the boat when facing forward.  
 Sheet - rigging lines used to trim the sails.  
 Stay - a line or cable which holds the mast in position.  
 Stern - the aft or back end of the boat.  
 Tiller - the lever which is used to change or hold rudder position.  
 Transom - the back end of the stern.  
 Vang - the tensioning device on a boom.



HULL SAWN, SHAPED AND SANDED FROM 1-1/2" x 3-1/2" (2 x 4) PREFERABLY LIGHTWEIGHT AND ROT-RESISTANT WOOD SUCH AS WESTERN RED OR EASTERN WHITE CEDAR

- MATERIALS AND SUPPLIES**
- 2" x 4" x 18" piece of Western Red Cedar (hull)
  - 1/4" diameter x 36" hardwood Dowel (makes 3 parts)
  - 16 x 1-1/4" brass wire brad (clew hook)
  - 12 qty. 1/2" zinc-plated Steel Screw Eyes
  - .032" x 1/2" x 12" Brass Strip (masthead crane) K&S 241
  - 2" square of 1/16" thick plastic (bottom of milk jug)
  - .093" x 2" x 12" Brass Strip (keel) K&S 229
  - 8 qty. 5/32 (4 mm) diameter Eyelets (grommets) Dritz 104
  - 8 qty. 1/16" x 1/4" x 1/2" plastic (cut from bottom of milk bottle)
  - 2 square feet of White or colored Rip-Stop Nylon (sails)
  - 6 feet of 30 lb. test Braided Dacron Line (rigging)
  - 1 sheet each of approximately 100 and 180 grit sandpaper
  - 1 or more can(s) of Paint or Stain, colors of choice
  - 1 small aerosol can of Spray Polyurethane
  - 1 small tube or container of 2-part Epoxy Adhesive
  - 1 small bottle medium-viscosity Cyanoacrylate (CA) Cement

- TOOLS REQUIRED**
- Scissors
  - Needle-Nosed Pliers
  - Small Hammer or Mallet
  - Hack Saw
  - Jigsaw or Coping Saw
  - Bastard File
  - Hand Drill with 1/32", 1/16" and 1/4" bits
  - Eyelet Tool (Dritz 104T)
  - Sanding Block with 100 and 150 grit paper

