



WOODENBOAT SCHOOL TOOL LIST

BUILD YOUR OWN PLANK CONSTRUCTED POND YACHT

PART I

On the following two pages is a list of tools you'll need for the upcoming "Build Your Own Plank-Constructed Pond Yacht". Some tools you currently own may work fine, but please note **you will specifically need the first 3 items – block plane, stapler, and staples. NO substituting other brands or somewhat similar items please.**

Also consider buying the needed tools sooner as opposed to later. Every year I get last-minute panic emails about things that are out of stock and "What should I do?" Buy now!

If things are unavailable from the sources I've supplied links to, Google the part name and number. Other than the block planes, most items are available from multiple resources. If you still have a problem or are unsure about an item, please feel free to email me at richterbruce@gmail.com

The materials fee for this class will cover the costs of the CNC cut molds, strongback, keelson, planking, fin, rudder and adhesives. Those items will be waiting for you when you arrive.

The purpose of the class is to give you a full week to devote your attention to the first phase of building your Vintage Marblehead pond yacht with the help and guidance of an experienced builder and instructor. By the end of the week you may complete or nearly complete the planking of your boat's hull and possibly make progress on the keel and rudder. Or not! One of the great things about this course is that you can and should work at your own pace. I happen to enjoy the entire building process which also includes stepping back, studying the overall form and details, appreciating *my* progress, and learning from others.

Just keep in mind, while the class is relatively intense, a week at the WoodenBoat School is an opportunity to be enjoyed, regardless of your experience level. One of the best parts is that you'll be working around a bunch of interesting, fun people from all over who come to spend their vacations working - and having a great time in the process.

- **Mini Block Plane** (one of these two are needed – **no substitutes**):
 - **Option 1: Jorgensen 3.5” Mini Block Plane**
 - https://www.amazon.com/JORGENSEN-Planer-Woodworking-Trimming-Planing/dp/B0BVZK331X/ref=sr_1_5?dib=eyJ2IjoiMSJ9.flBDOd9ti7BWpD6JUa-jyWVq4zmJ45EjRSNqVB-5vTAAJ-bX-dWzsG_ksa3Y3cFvLJ3aVFZbHbKYCgJPvUig2eHe8QsE7uU0cRKqBSm42PY82hdLDANqJb7ykIfjfineCIR1XtebbkzngL-IRj5qYi5f-SpoNjNgHe049AgPK0GyT7cg4t0EEux2sGzVRuKo4k3zznoh_SOLuBUowdB_Z4O9Pvebil2LWUUP2WB89C6-16-BoQnuTzICE2feKGHVnFzeF0sSYhlzIleGDn3r_EfCB9dQbpZlo8eXU0Bp8.xGFluWcTlalJO1UeKcZYiedXrMk6H_3On8_3KSz0v-0&dib_tag=se&keywords=mini+block+plane&qid=1762887162&sr=8-5
 - **Option 2: Lie Nielsen Violin Maker’s Plane**
 - Beautiful heirloom-quality - and more expensive
 - <https://www.lie-nielsen.com/products/violin-makers-plane>
- **Stapler** (no substitutes, must be this light-duty Stanley)
 - **Stanley TR45Light Duty Stapler**
 - <https://www.homedepot.com/p/Arrow-3-8-in-Leg-x-7-16-in-276-Electro-galvanized-Medium-Crown-22-5-Gauge-Standard-Steel-Staples-1-000-Pack-27650/100201779#overlay>
- **Staples**
 - **Arrow JT21 Staples 3/8” leg length type #276**
 - Must be this exact size
 - Quantity of 3 boxes needed
 - <https://www.homedepot.com/p/Arrow-3-8-in-Leg-x-7-16-in-276-Electro-galvanized-Medium-Crown-22-5-Gauge-Standard-Steel-Staples-1-000-Pack-27650/100201779#overlay>
- **Tape Measure**
 - You probably already have one
- **Staple Remover**
 - <https://www.amazon.com/Bostitch-Professional-Magnetic-Remover-40000M-BLK/dp/B0006HUV4M?th=1>
- **Several pencils**
 - Mechanical pencils are a plus since the point is always sharp.
- **Utility Knife**
 - **X-Acto** - preferred because of the available blades
 - https://www.amazon.com/Xacto-X3001-Razor-Knife-Blade/dp/B000061CJS/ref=sr_1_13?crid=3NOT91V58HRAJ&dib=eyJ2IjoiMSJ9.8j86bI_Zi8ezuZOCqkUu1jLM98av97TJDsfm1ahAIDS8Wi4Y0GHmADLkteA0neJ1lLxfgHTP4rNMjy49oovF3gAwlv0VBM2Z4dSy0ujEVti2M04Ymthl1My_LzmO6SW0BFyu_MVRYLYXiW6P41Oaagmzy3_XDgoL1or9xtOWgzuaLVA9q4H3-8ALUAckKHCjq8d-A4OeWpovvgpbklclVZ7NyLu0H21rRs31q2wDuRmvuaxyGzKWeHvRHi3kgLux1BJem8onhf8EmTmqB1VzYOWdwUYxbkBgqtJmXqKPUxc-yE02zKVtFhPJlIkQz5423Nr0BdRheLrYKo-5kiK3g&dib_tag=se&keywords=x-acto+utility+knife&qid=1763061909&s=office-products&prefix=x-acto+utility+knife%2Coffice-products%2C77&sr=1-13
- **Razor saw**
 - **Lee Valley General-Purpose Razor Saw**
 - <https://www.leevalley.com/en-us/shop/tools/hand-tools/saws/back/102674-general-purpose-razor-saw?item=60F0312>

OPTIONAL (all are just examples)

- **Small Plier Set**
 - <https://www.lowes.com/pd/Kobalt-6-Pack-Assorted-Plier-Set/1000179111>

- **4.5” Micro Clamps** (you may want several)

- https://www.amazon.com/IRWINQUICK-GRIPOne-Handed-Micro-Clamp-Pack-1964747/dp/B00004SBCO/ref=sr_1_2?crid=2NJGWV2WHAC7X&dib=eyJ2IjojMSJ9.3t4k7YZDBGjjLn85ifmE3xwS5trqx0fOAxjQ4r8BT9t1GiVi9M46wMfTIE-m7URRYxlq58N5TYkUi_uP2r2JIDK8-Ej7jwq8ZceDfXOxkrk070WjOIzD5oWxeLuUdOdTZnvkTEkDmR7kW0rWAuhG0kdFX4OzKvwFtQkA5-HPUzn0PhyHD2cQPDuHDeVrs0qu1jHEE_NeK09pfme2My4WI9haFvCFg9Wu4JuhPv1k9BAI8UGwWMAPI4ETDFqksxWbQ-hFpbGeQOYPLQOPftfQzUYK47zcOH3Og9yRbkVro.9-7UfcNNXrGrdEtWEaZU5GXOZhDTW5T99hFwZs6D_E&dib_tag=se&keywords=Irwin%2Bmini%2Bclamps&qid=1762891442&srefix=irwin%2Bmini%2Bclamps%2Caps%2C113&sr=8-2&th=1

- **1” Plastic Spring Clamps**

- https://www.amazon.com/POWERTEC-71018V-Spring-Clamps-Piece/dp/B0B5WQG8KC/ref=sr_1_20?dib=eyJ2IjojMSJ9.p4vYCKYwL7zu9mbazhUYQAJuCrrYxHpCX9iZMqh4xtDdPwuTK3kaUVQ97SqJOkCialRpDeal5YG288J56VzE8XiYx_tWYpH5MKqUhq6O2xK9c26NSJVQimXXJ0L0Cc8_Dn1mUmGliKNj-zLFkOypmYc2qCM6dSJZ5R2hy0-vW7B6JNflCIBRkk3Mb1F_kt_XMyKPfuJTMZgF53Y95bf7BpAE6-fKnfjTIQSm8CCq3Eu7iqw78yd_pwxnBmap1QfCfBq79SjnMUR0xrW7bsX5iJfmeMOjKILNyeMJRmhMNTA.v4323xV1JD2zX8-VS7Qg9eWSeI853SvctfY43oLXMGU&dib_tag=se&keywords=1%2Binch%2Bspring%2Bclamps&qid=1762891662&sr=8-20&th=1

- **Rasps and/or Furniture Scrapers**



WOODENBOAT SCHOOL TOOL LIST

BUILD YOUR OWN PLANK CONSTRUCTED POND YACHT – II & III

- **Wk.2 students** – bring everything (tools, etc.) you brought to your Wk.1 class **plus** the **PHASE I** items listed below.
 - o **Phase II items are the electronics.** You may not need those quite yet, but if you want to play it safe or experiment with the electronics please purchase and bring along.
- **Wk.3 students** – bring everything you brought for wk.2 **plus** the **PHASE II** items listed below
- **Underscored items below** are links to actual products and/or examples.
- **Please read and review all 5 pages below:**

Bowsies:

PHASE I



- **Option 1**
 - o Preferable but might be out of stock
 - o https://www.midwestmodelyachting.com/Bowsies--Medium--10pack_p_191.html
- **Option 2**
 - o 2 packs total needed
 - o <https://www.rchobbiesoutlet.com/881210-bowsie-pk10-for-joysway-df95-sailboat/>



Dubro Long Steering Arm

- 1 needed
- <https://www.motionrc.com/products/du-bro-1-1-4-nylon-steering-arm-dub166>



Dave Brown Fiberglass Pushrod system

- Order 1 “Complete Pushrod system”
- <https://www.ohio-superstar.com/dave-brown-product-line/fiberglass-pushrod-system>



Sullivan 4-40 Gold-N-Clevis

- 1 set needed
- <https://sullivanproducts.com/products/s526-4-40-gold-n-clevis>



Sullivan Threaded Studs 4-40

- 6/set, 1 set total needed
- <https://sullivanproducts.com/products/s491-4-40-x-1-threaded-studs>

Great Planes Hex Nut 4-40 8/set

- 1 needed
- <https://www.amazon.com/Great-Planes-Hex-Nuts-4-40/dp/B001BHLR44>



Du-bro Threaded Stud Driver

- 1 needed
- <https://www.dubro.com/products/threaded-stud-driver>



Hitec Standard Receiver Switch Harness with Charging Connector

- 1 needed
- <https://www.amainhobbies.com/hitec-standard-receiver-switch-harness-with-charging-connector-hrc57215s/p4030>



Hitec HS-805BB Mega Giant Scale Sail Arm Control Servo

- 1 needed
- <https://www.amazon.com/Hitec-31805S-HS-805BB-Giant-Scale/dp/B0006O3X2M>



Hitec HS-485HB HD BB Karbonite Gear Servo for rudder

- 1 needed
- <https://hitecrd.com/hs-485hb-deluxe-hd-ball-bearing-standard-servo/>

Vintage Model Yacht Fittings Kit

See the specific list below. Ordering the complete list of items will be needed to finish your boat.

Images of most of the items can be viewed at the website: <http://modelyachtfittings.com/> See the discussion on the next page for more thoughts and details.

Other options are available from several resources including Midwest Model Yachting (<http://www.midwestmodelyachting.com/>) but none of them package Vintage Marblehead or Marblehead kits, so all fittings would need to be purchased separately.

These brass fittings from Model Yacht Fittings on the list are produced by Roger Cousineau (a WBS alum) and are very similar to the AJ Fisher fittings that were produced for vintage pond yachts decades ago. Although, Roger's are better made than the originals; they are gems and are actually cheap in cost when one considers the labor of production involved. (It's definitely a 'labor of love' for Roger. He once mentioned that he makes about 25 cents an hour manufacturing them.) Ordering the complete kits also assures you that you'll have everything you need.

Due to changes in the cost of brass stock, **the prices below have increased.** Roger recommends that you contact him directly before ordering. <https://fanseemusic.com/MYF/>

Item	Description	Qty	Cost	Total
MYF-TB-PB3	Turnbuckle, Quick connect hook and eye	5	14.00	70.00
MYF-SP-TEE-L	Large Shroud Plate Tee 2 1/2" long Jib Rack	1	12.75	12.75
MYF-SP-TEE-LG	Shroud Plate -Large 3 1/2 inch Tee Plate	2	14.00	28.00
MYF-SP-MH-L3	Shroud Plate, 1 inch 3 hole to match large Tee	1	8.75	8.75
MYF-DFT-1	MYF-DFT-1 Deck Fairlead 1/4-28 Thread	2	8.75	17.50
MYF-GN-FM-L	Gooseneck, Flat Mount, Large	1	44.00	44.00
MYF-BV-MH	Boom Vang, Adjustable, Flat Mount, Marblehead	1	45.00	45.00
MYF-MS-Custom	Custom Mast Step	1	22.50	22.50
Mast Tang	Mast Tang Custom	6	2.65	15.90
Mast Crane-P	Mast Crane for Marblehead w/shackle	1	15.00	15.00
MYF-JS-Custom	Custom Jumper Strut VM	1	25.00	25.00
10019CE	10019CE Turnbuckle 2-56 Thread with mast mount	1	15.50	15.50
Custom Spreader	Custom spreader (Pair) Marblehead w/tangs	1	14.00	14.00
Cable .027	Rigging Wire ss .027 dia 7 Strand	35	0.41	14.35
Wire Crimp Sleeves	.032 Dia Al. Crimp Sleeves .187 Lg.	30	0.35	10.50
Hardware Kit-VM	V M Hardware Kit Screws, eyes, spare hex bolts & nuts,	1	19.50	19.50
Custom Photo CD	Photo CD containing rigging photos	1	0.00	0.00
S&H	Shipping & Handling USPS Priority with tracking	1	13.75	13.75
Insurance	\$3.50 per \$100.00	1	7.50	7.50
Wooden Boat disc...	Student discount for Wooden Boat School		-20.00	-20.00
Quote is good for 30 days			Total	\$379.50

Week 2 Phase II

This page includes items needed for the course week if you've already completed Week 2 Phase I. Work done in this phase could include final hull fairing and epoxy coating, completing the deck and electronics controls, attaching the deck fittings and bow bumper, and building the rigging system (mounting sails at home).



NiMH 5C 6.0V 2000mAh AA Flat Receiver Battery w/ Universal Plug

- 1 needed
- https://www.amazon.com/Geilienergy-2000mAh-Battery-Connector-Aircrafts/dp/B01HJDFWDK/ref=sr_1_8?dib=eyJ2IjoiMSJ9.Z4Hm8ZcLVVYSK5Geeh0tpLCaeP3Pwr5e4biBh3GDTEgmdTECMnUIZd2LzfeF_3BdtqNLYVFLcat4Rh2W1Wvur_yLzADHdtIjcVHv2exaqu1NWwm3sqg7Jn0Wz7nA6lMNjBr8qqoCGj4_mU7nEPhQUjY742Z0dQ2uVqKTSmVPRrO3KMT6wBIpA271UI2TgiV34xx34xzH8-T-3VQ974tTwl50ivOjSKDZ_XDd8EtKA83fjwEFGv7sDSe6orO3qxFWrd5Rk9z2Yoy896R0syEOsEO1v37BmMUuGfkt2TimZ30.tIS-OVc89_auYbMzv3Apub86d0LF1IJ0zd04BcXmoh8&dib_tag=se&keywords=6v+2000mah+nimh+battery&qid=1762897590&sr=8-8



Spectrum S100 receiver battery charger

- 1 needed
- <https://www.horizonhobby.com/product/s100-1x100w-usb-c-smart-charger/SPMXC2090.html>

Transmitter/Receiver Packages

- **If this is a first boat:** You'll need a hand-held 2-stick transmitter with at least two channels (one for the sails, one for the rudder) and you'll need a compatible receiver that will be secured inside the hull. The easiest option is to buy a package that included both. And you don't need to go crazy. Below is a good, solid transmitter/receiver package that's affordable (\$54.97!) and reliable:
 - **FlySky FS-i6x transmitter/receiver package**
- **If you already have an RC boat or airplane:** Then you also have a working 2-stick transmitter with at least two channels. Most allow you to program more than one model. So all you'd need is a compatible in-boat receiver.

Other things to be aware of concerning the course:

1. **I do not recommend that you bring sails for your boat to the course.** There are a number of reasons for this. If you mount the sails on the rig during the week it will complicate the size of container you will have to travel from Brooklin with after the course and the risk of damaging them will be increased in travel. Also, there will be plenty to do besides mounting the sails, and that is a simple operation to complete after the course. But, this is not a task that will be overlooked, as I can easily demonstrate attaching the sails to a rig. I highly recommend that you take a lot of photos of the sample rigs that will be on display.

2. Once the course is completed, you will need to do one of the following with your hull/boat, mast, additional parts, etc:

- Option 1 – Bring and take your boat with you in your vehicle:
 - Consider using a few moving blankets or something to wrap the hull for protection.
- Option 2 – Ship your boat home via FedEx/UPS/USPS:
 - If you would like to ship your boat and parts home, please let me know early in the class week so we can alert the shop who will build you a shipping container. WoodenBoat Store will also help with shipping.
 - If you intend to build a mast during your course week you should start making plans before arriving at WoodenBoat concerning how you will ship that home. Basically a length of PVC tubing should work fine for shipping or commercial travel. The mast for course boats is a maximum of 76" LOA. A length of PVC tubing several inches longer (to allow for wooden plugs at the ends) than the mast LOA would be sufficient. The tubing should have an

internal diameter of at least 2” to allow for some packing material. You should purchase that and bring it with you to WBS - or plan on a field trip to the nearest hardware store (25 miles round trip) or Home Depot (55 miles round trip)!!

- Option 3 – Leave your boat at WBS (A new option!)
 - If you plan on taking this course the following year to work towards project completion, you can leave your boat at the school. You may want to bring protective material to wrap the boat in since it will be in the loft storage area which sees some traffic. If this sounds like it might be of interest, please keep these caveats in mind:
 - You cannot call or email later in the year saying, “Please ship my boat to me, I can’t make it back for the follow-up class.”
 - You cannot stop by and pick up your boat when school is not in session.
 - Storing your boat at the school does not guarantee you of getting into the class. As always that’s on a first-come first-serve basis.

3. I encourage you to work at your own pace and do not get caught up in getting the boat finished in just this one week. That may mean that you do not use all the items on the above inventory list. But you definitely should bring all the items pertaining to the phase appropriate to your progress, if for no other reason than it would be a shame if a task did not get done because the materials were setting back at home.

4. The same tools you brought with you to your first Building Vintage Pond Yachts course would be appropriate to bring to this class.