



TOOLS REQUIRED

circular saw w/panel-cutting blade
 saber saw
 flathead screwdriver
 sharp knife
 handsaw
 hammer
 foam cutter
 heavy-duty staple gun
 light-duty welder
 electric drill

5/32", 5/16", and 3/8" drill bits
 hacksaw
 vise
 3/4" conduit bender
 grinder
 tape measure
 protractor
 clamps
 end- or box-wrench assortment
 snips

LIST OF MATERIALS

MATERIAL	SIZE	PURPOSE
1" E.M.T.	(2) 1" X 60"	crossmembers
	(2) 1" X 12"	chain stays
	1" X 20-1/2"	crank post
3/4" E.M.T.	(2) 3/4" X 47"	seat rails
	3/4" X 18"	seat-frame top
	3/4" X 60"	rudder loop
	3/4" X 4"	rudder-post bearing
	(2) 3/4" X 9-1/2"	seat supports
1/2" E.M.T.	(5) 1/2" X 9"	paddle supports
	1/2" X 60"	tiller
	1/2" X 15-1/2"	rudder post
	1/2" X 5"	rudder-post extension
1/4" hot-rolled steel	1/4" X 14"	tiller linkage
11-gauge steel	(4) 2" X 2"	rudder supports
18-gauge aluminum	(5) 4" X 9"	paddles
26-gauge aluminum flashing	12" X 20'	pontoon hulls
1" PVC pipe	1" X 8"	chain rubbing block and paddle clips
1/4" exterior plywood	4' X 8'	pontoon sides
1 X 12 shelving	(2) 1 X 12 X 8'	pontoon decks
1 X 4 Construction-grade lumber	1 X 4 X 8'	pontoon-hull supports
1" beadboard	(6) 1" X 4' X 8'	pontoon flotation
fiberglass cloth	70 square feet	pontoon waterproofing
fiberglass resin and hardener	2 quarts each	pontoon waterproofing
1/2" exterior plywood	1/2" X 10" X 10"	rudder
flexible plastic	12" X 36"	paddle splash shield
lawn-chair webbing	50'	seat sling
panhead binding screws	(44) No. 10 X 1/2"	seat-sling fasteners
junk bicycle	ten-speed	crank and hub
bicycle chain	(3) 55" w/links	chain drive
1/4" bolts w/nuts	1/4" X 1-1/2"	tiller pivot
	1/4" X 1"	rudder-post fastener
	(12) 1/4" X 1"	paddles and rudder
1/4" lag screws	(16) 1/4" X 1"	pontoon-sleeve fasteners
5/16" bolts w/nuts	(4) 5/16" X 2"	pontoon-to-frame fasteners
1/4" push clips	(2) 1/4"	tiller-linkage-arm fasteners
No. 12 panhead screws	(2) No. 12 X 1"	paddle-holder fasteners
No. 8 panhead screws	(5) No. 8 X 3/4"	various
No. 8 countersunk screws	(16) No. 8 X 3/4"	plywood-to-deck fasteners
8d finish nails	1 pound	hull-support fasteners
cleats	(2)	mooring
enamel paint	1/2 gallon	pontoons and frame
1-3/8" O.D. chain link fence railing	(4) 1-3/8" X 10"	pontoon sleeves
1" fender washer	(1)	rudder-post fastener
bicycle grip	(1)	tiller handle
rubber caps	(2) 3/4"	seat tops
rubber caps	(2) 1/2"	tiller and rudder-post extension