

# Scooter Bill of Materials

The following list of materials is intended to be a general guide only. Before ordering any materials, the text and plans should be checked for possible options. All lumber listed as 1" stock is to be standard "lumberyard four-quarter" material which when finished may vary to somewhat less or slightly more than 3/4" in thickness. All widths are NET and all lengths allow for cutting to fit. Grouping lumber and purchasing random-random material to resaw to the required size will result in considerable savings. All lumber used should be first grade free from shakes and knots. Lumber typical to the locale and proven in use in boats of similar type can be used as long as the weights, strengths, and physical characteristics are similar to those listed. Suitable boatbuilding woods can include white oak, mahogany (Philippine dark red, Hoduras, or African), Sitka spruce, Alaskan cedar, and vertical grain Douglas-fir or long-leaf yellow pine. All plywood (PW) is to be marine (MAR) or exterior (EXT) grade. The marine-type is preferable as the inner cores are solid and thus the panel has more structural integrity. Douglas-fir (DF) is satisfactory with the quality of the exposed faces of the veneer being designated by the letters "A" or "B". The "AA" grade panels are always preferable, however, "AB" grade is acceptable. All plywood should be a minimum of three plies. All fastenings should be bronze or hot dipped galvanized ferrous metal. Brass fastenings are not advised nor are the electroplated screws commonly sold in hardware stores. All screws are to be of the flat head type intended for wood. All nails are of the ring-type nail common to boat construction. Unless otherwise specified, all wood-to-wood joints are to be glued with a waterproof or highly water resistant glue such as plastic resin, resorcinol, epoxy, or other equivalent type used per the manufacturer's instructions regarding temperature, clamping requirements, curing time, and mixing method. NOTE: Use scrap material for butt blocks.

MATERIAL ABBREVIATIONS: DF = Douglas-fir; PW = plywood; Ext = exterior; Mar = marine; Mah = mahogany; SP = spruce

LUMBER:		
ITEM	MATERIAL	NO. PCS
Frames #1, #2, #3 & Transom *	28 lin. ft.	1" x 1-3/4"
	2 lin. ft.	1" x 2-1/2"
	3	1" x 1-1/2" x 78"
	3	1" x 1-1/2" x 80"

Frame #4*	4 lin. ft. 4 lin. ft. 1 1	1" x 2" 1" x 1-3/4" 1" x 2" x 77" 1" x 2" x 78"
Motor bracket*	1 (makes 2)	2" x 7-1/2" x 6'
Bow piece spreader	1	1" x 8" x 2'
Bow piece lower lamination*	1 (makes 2)	1" x 6" x 5'
Tunnel side curve*	1 (makes 4)	1" x 5-1/2" x 12'
Sawn forward chine*	1 (makes 2)	1" x 7" x 52"
Tunnel chine sawn*	1 (makes 2)	1" x 6" x 40"
Tunnel chine	2	1" x 1-1/2" x 10'
Chine	2	1" x 1-1/2" x 16'
Sheer	2	1" x 1-1/2" x 16'
Deck and bottom battens	14	1" x 1-1/2" x 16'
Cross brace	1	2" x 4" x 4'
Bulkhead cleats	2	1" x 1-1/2" x 7'
Bulwark cleats - top & bottom	1	1" x 4" x 8'
Bulwark knees*	1 (makes 3)	1" x 4-1/2" x 1'
Raised deck battens	1 (makes 3)	1" x 1-1/2" x 7'
Raised sheer	1 (makes 2)	1" x 1-1/2" x 5'
Bumper rail (check for options)	2	1" x 1-1/4" x 16'
Console cleats	30 lin. ft.	1" x 1-1/2"
Console rod holders	1 (makes 4)	1" x 3" x 7'-6"
Control arms	1 (makes 2)	1" x 3' x 5'
Console dash	1	1" x 9" x 44"
Console base	1	1" x 11" x 44"
Console windscreen ends	1 (makes 2)	1" x 8" x 4'
Console windscreen top	1	1" x 3-1/2" x 44"
Seat cleats	19 lin. ft.	1" x 1-1/2"
Seat aft beam	1	1" x 4" x 43"

#### PLYWOOD:

ITEM	MATERIAL	NO. PCS	SIZE
Runner sides	DF MAR or Ext AA or AB	1	1/4" x 4' x 8'
Frames & transom*	DF Ext AB	1	1/4" x 4' x 8'

Motorboard and bow piece*	DF Ext AB	1	3/8" x 4' x 8'**
Tunnel planking	DF MAR or Ext AA or AB	1	3/8" x 4' x 8'
Runner & side planking (one each from each panel)	DF MAR or Ext AA or AB	4	3/8" x 4' x 8'
Decking & raised deck motorboard	DF Ext AB	4	3/8" x 4' x 8'
Console, seat, and knees	DF Ext AB	2	3/8" x 4' x 8'

\* Included in Frame Kit

\*\* Optionally use 3/4" x 4' x 4' plus scrap from console seat for motorboard inner core.

### FASTENINGS:

- SCREWS: Flat head wood type, bronze or hot dipped galvanized iron.
- 3/4" #8 Screws - 3 gross, 2 dozen
- 1" #8 Screws - 7 gross
- 1-1/4" #8 Screws - 7 dozen
- 1-1/2" #8 Screws - 2 gross, 2 dozen
- 2" #10 Screws - 4 dozen
- 3" #14 Screws - 1 dozen
- NAILS: Ring type, Bronze or Monel
- 3/4" #14 = 1 pound
- 1" #12 = 2 pounds
- 1-1/4" #12 = 2 pounds
- CARRIAGE BOLTS: Bronze or hot dipped galvanized
- 5/16" x 6" - 4 required

GLUE: Epoxy - Approximately 1 gallon