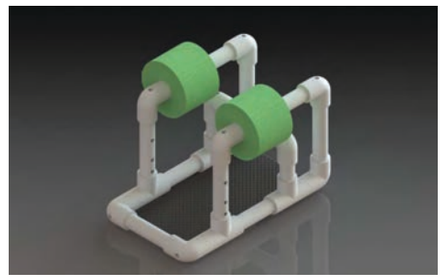
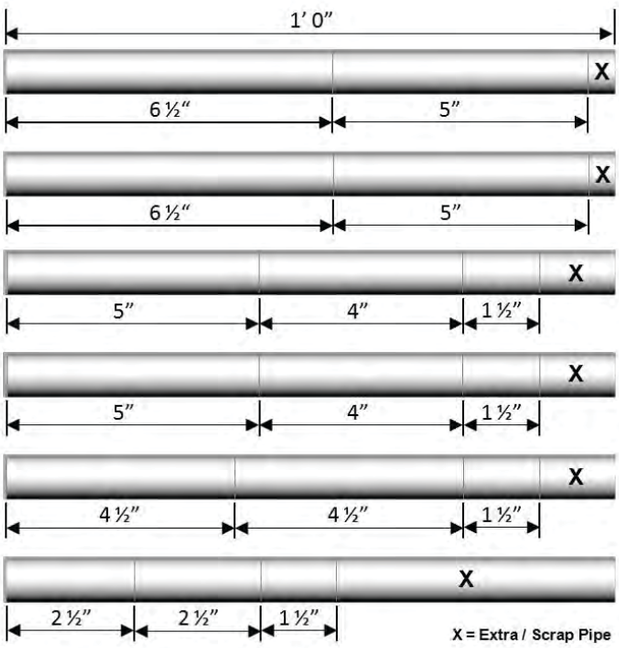
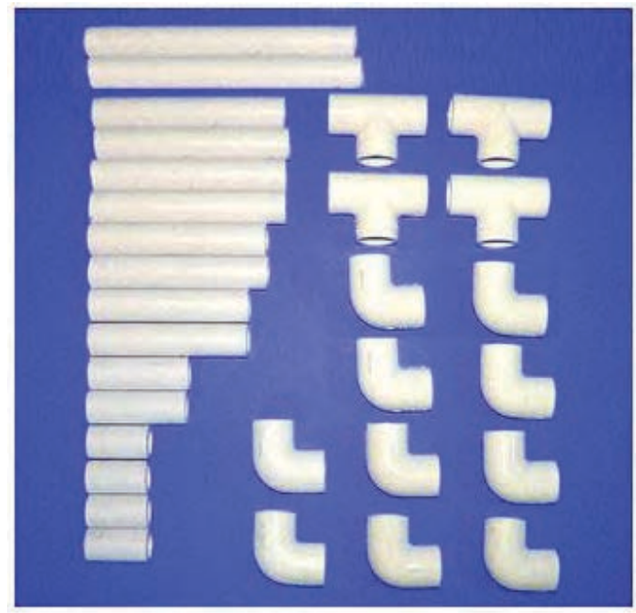
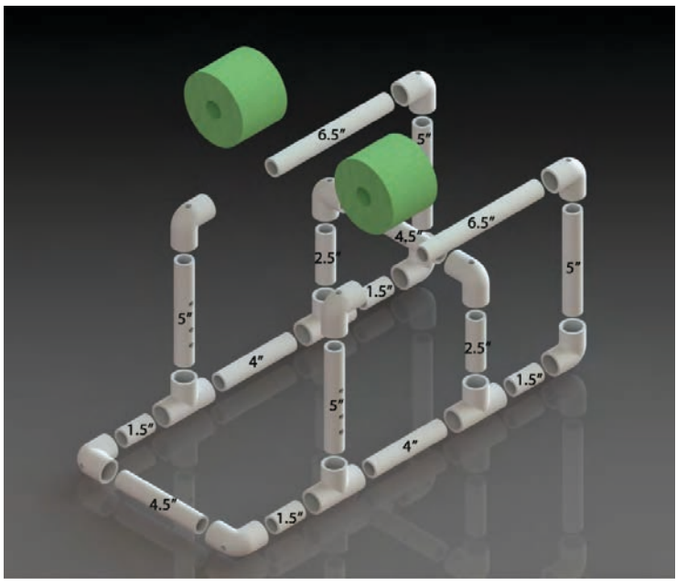
BUILDING YOUR ROV FRAME



- ❑ **Two** Pieces – **6.5”** (16.5 cm) long
- ❑ **Two** Pieces – **4½”** (11.4 cm) long
- ❑ **Two** Pieces – **2½”** (6.4 cm) long
- ❑ **Four** Pieces – **5”** (12.7 cm) long
- ❑ **Two** Pieces – **4”** (10.2 cm) long
- ❑ **Four** Pieces – **1½”** (3.8 cm) long

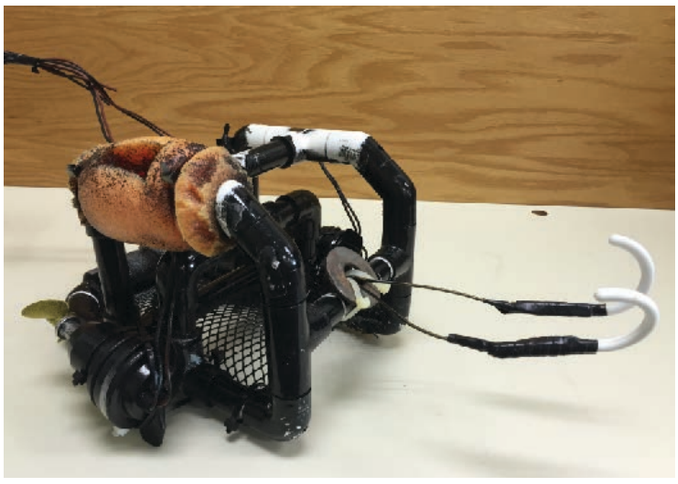


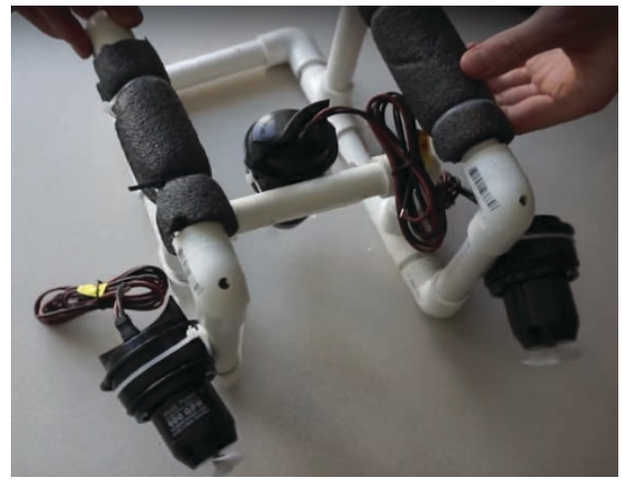


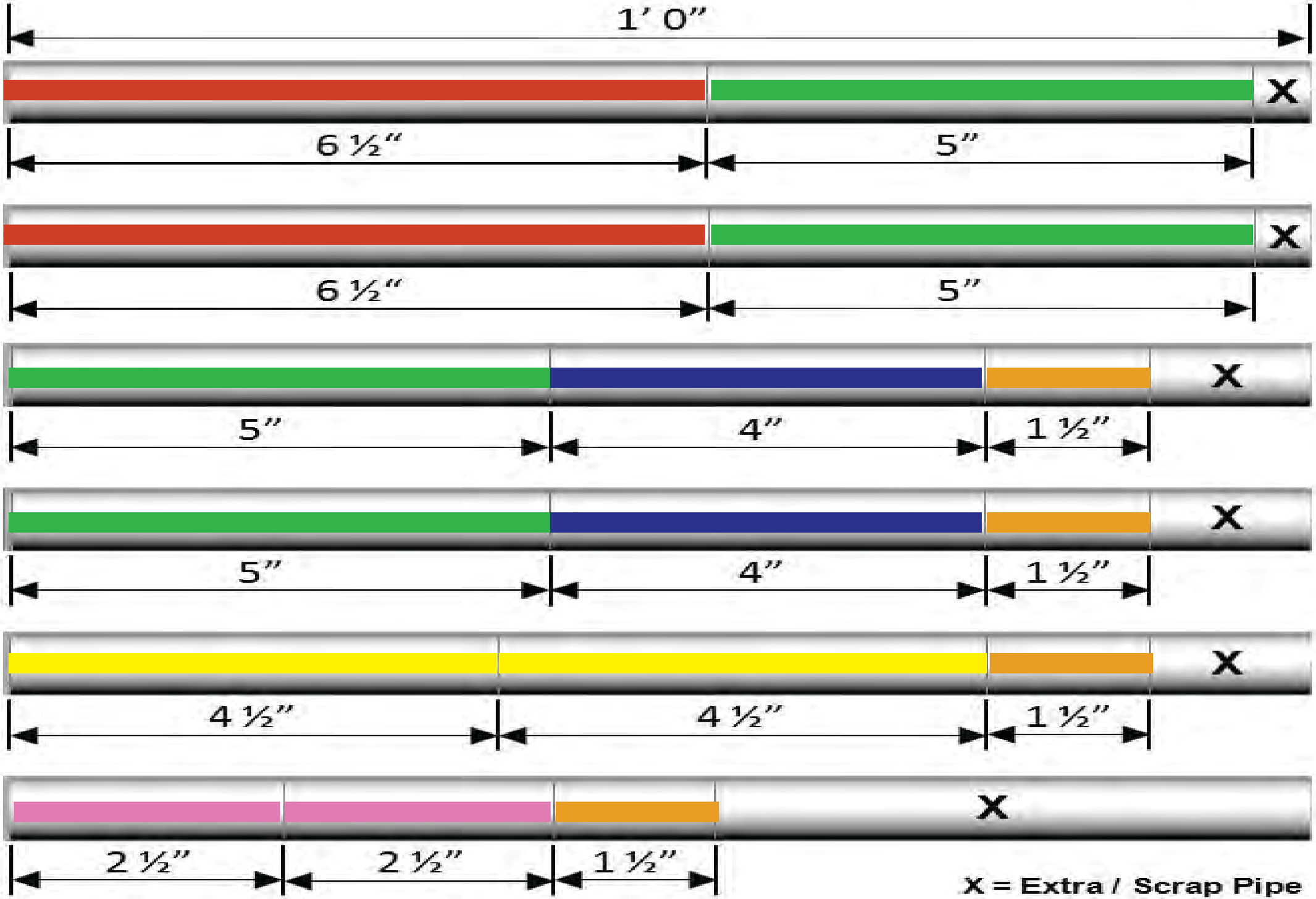


OTHER MATERIALS YOU NEED:

- ☐ 3 MOTORS
- ☐ TETHER (long blue wire)
- ☐ Speaker Wire (silver and copper colored wire)
- ☐ Fuse and fuse wire (red wire)
- ☐ PCB (printed circuit board)
- ☐ 3 Switches
- ☐ Control box (black box with screws)
- ☐ Floats (probably 2 or 3)
- ☐ 3 Propellers






1' 0"
X
6 ½"
5"
X
6 ½"
5"
X
5"
4"
1 ½"
X
5"
4"
1 ½"
X
4 ½"
4 ½"
1 ½"
X
2 ½"
2 ½"
1 ½"
X = Extra / Scrap Pipe

HOW TO BUILD THE CONTROL BOX:

1. Strip blue tether wire back 3 inches.
2. Strip all of the wires inside of the blue tether wire back 1 inch.
3. Repeat this for both sides of the blue tether wire.

4. Insert each of the switches into the PCB (circuit board).
5. Solder the switch pins to the underside of the PCB board.
6. Solder two of the colored wires (the ones from inside of the blue tether wire) onto two of the holes directly infront of the switch on the PCB.
7. Repeat this for the other colored wires (note: like colored wires should stay together, i.e., green, and green/white, etc.)
8. Solder the "like colored wires" from the other side of the blue tether to the brown and black motor wires. Then tightly wrap the solder with black tape.
9. Solder the speaker wire (copper/silver) onto the biggest holes on the PCB which are in the center of the PCB.

10. Mark switch holes on your control box (line up the switches) and then drill corresponding holes.
11. Insert PCB and wires into box, and screw box top on.
12. Add fuse to one side of speaker wire. To do this strip one end of red fuse wire, and one end of speaker wire. Twist together, and wrap with black electric tape. Then insert fuse.