

91.450, Robotics I
Fall 2003
Prof. F. Martin

Lab 1

Out: Monday, 8 September 2002

Due: Friday, 12 September 2002

In this lab, we will be learning about the Handy Board – its parts, where to plug in components, and how to program it. In lab next Friday, we will be using the Handy Board and the robot base that you will build for homework.

Assignment for Friday, 12 September:

On Friday, we will be using the Handy Bug 9719 described in Section 2.2.2 of the Martin book (pages 50 – 71). Your assignment for Friday is to find the parts listed on pages 54 – 56, with the following corrections:

- p. 54, halfway down: 4 2x4 bricks listed (correctly) with incorrect picture (1x2 Technic beam). You need the 4 2x4 bricks, not the 1x2 Technic beam.
- p. 56, last item: 2 black rubber bands are listed. These are too small. Use 2 yellow rubber bands instead.

There are lots of LEGO components available. We will distribute them more or less equally. If there is a shortage of parts, we will redistribute.

You may wish to organize your Lego parts in some manner that makes it easier for you to find parts in the future.

Once you have found the parts, assemble the Handy Bug before Friday's lab. In our lab on Friday, we will be programming the robot, so it is important that your robot is ready to go. Your grade for this lab will be a binary grade, given on Friday at the start of lab. If your robot is built, you will get 5/5 lab points. If your robot is not built, you will get 0/5 lab points. There is nothing to write up for this lab.