

6.095 Humanoid Robot Competition

Massachusetts Institute of Technology

KHR-2HV Assembly

Overview

You will build and control KHR-2HV following the assembly manual. KHR-2HV is a humanoid robot we will use over IAP.

Material

KHR-2HV

Tools

Medium size Philips screw driver

1. Start assembling KHR-2HV

Visit courses.csail.mit.edu/6.095/current. This is where all the material for the class will be posted. Go in the “manuals” folder and download the assembly manual for KHR-2HV.

Assemble the robot up to page 24. In this part, you must set the servos to specific angles before continuing the assembly. The manual explains how this is done with the board included in the robot kit, called HeartToHeart. Yet, since we will be using a more powerful board (SEMB1200A), you should not set up HeartToHeart.

Refer to the **Hardware Assembly** handout for instruction on how to assemble SEMB1200A. Once the CPU board has been assembled and tested, resume the robot’s assembly. It is recommended to start the software installation at this point since some of the processes take a long time to finish. Refer to the **Software Installation** handout for this.