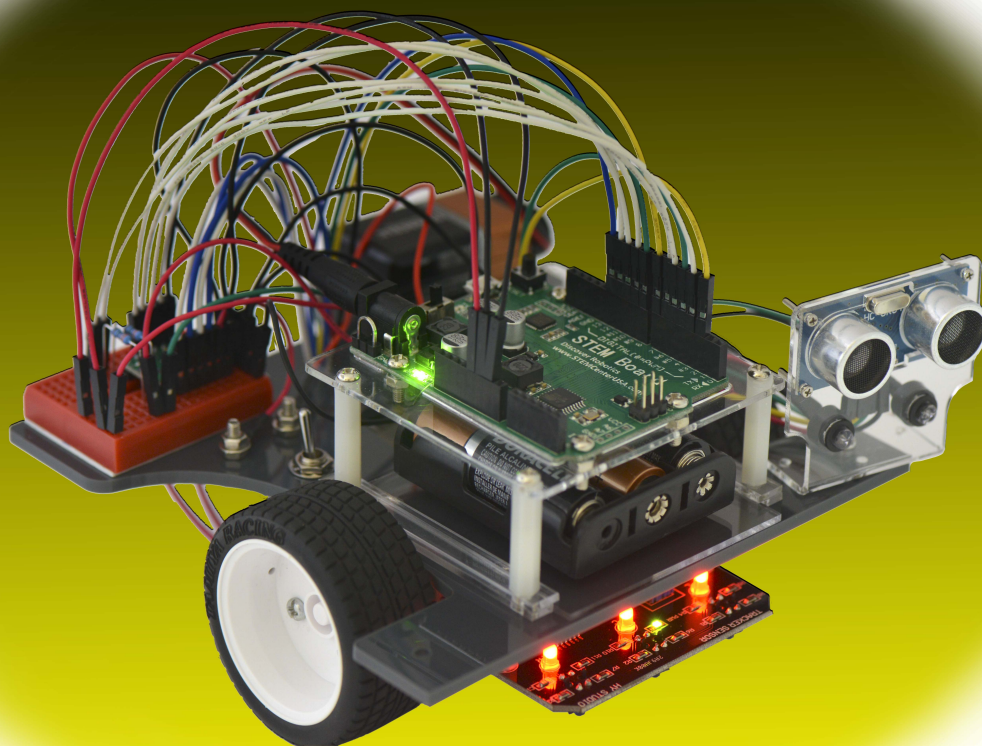


STEM Center USA

Pi^π-Bot



Assembly and Programming Manual

Table of Contents

BEFORE YOU BEGIN

LESSON 1: Assembling the Gearbox

LESSON 2: Building Your Pi-Bot

LESSON 3: Introduction to C Programming

LESSON 4: Basic Hardware Programming

LESSON 5: Programming the Distance Sensor

LESSON 6: Programming Motion Control

LESSON 7: Collision Detection

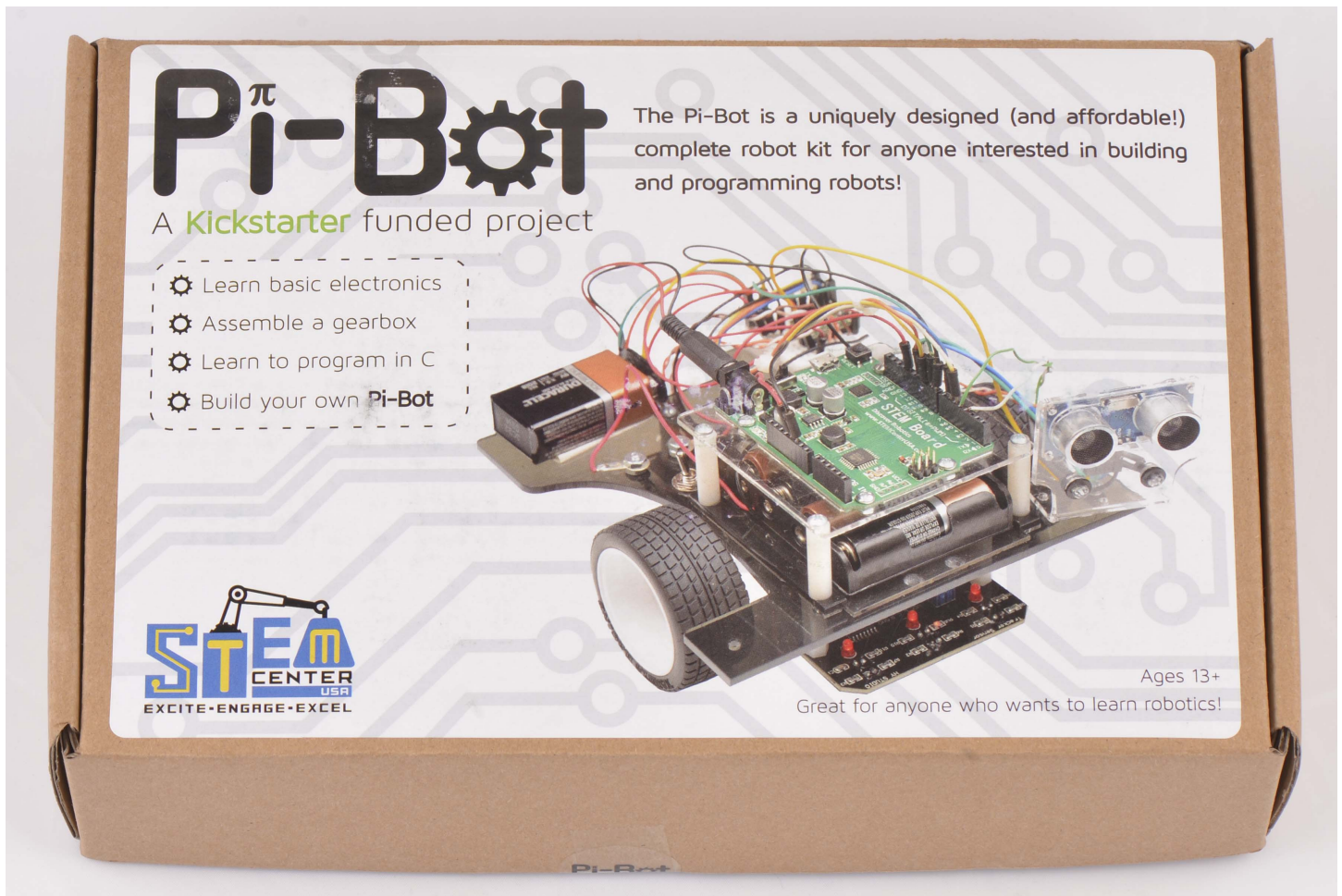
LESSON 8: Line Following

APPENDIX A: Installing and Testing the IDE

APPENDIX B: Understanding the STEM Board

BEFORE YOU BEGIN

Congratulations on the purchase of your Pi-Pot Robotics Kit!



Before starting the assembly of your Pi-Bot, check to make sure all the necessary parts for your Pi-Bot are included. Your Pi-Bot kit should include the following items:



Layout of all parts for your Pi-Bot.

All of the instructions in this manual are designed to provide an easy step-by-step method for every aspect of building your Pi-Bot, from start to finish. Make sure to take your time and read through each Lesson carefully. Lots of pictures are included with every step for instructional clarity.

Internet connection will be needed to download the supplementary programming materials.

Have fun!