INTRODUCTION

As engineers who will program an Eco-Bot to clean Bailey Beach, it is important for you to understand what an Eco-Bot is and what it can do. See a demonstration of the Eco-Bot at www.4-H.org/NYSD.

THINK ABOUT IT

How does the Eco-Bot work?

What are its moving parts?

Do any of the parts look familiar?

Step 1: Bring Your ‘Bot to Life

Now it's time to assemble your own Eco-Bot and get it moving!

Eco-Bot Assembly

1. Remove the backing from one side of the 3 cm piece of foam tape and firmly stick it on the flat side of toothbrush head.

2. Remove the backing from the other side of the tape and gently push the motor on top of it with rotating part hanging off the back-end of toothbrush. This will allow the motor to spin without touching the tape. The wires should be positioned toward the head of the toothbrush.

3. Gently push the watch battery (+) side up onto the tape with the red wire underneath.

4. Turn the Eco-Bot on by pressing the black wire onto the battery with the 1 cm piece of foam on top.

Eco-Bot Assembly

A—Motor
B—Red and Black Wires
C—Foam Mounting Tape
D—Button Cell Battery
E—Scrubber