

Car PCB Testing

Rev 5/29/24

Test 1 (basic operation)

1. Install a programmed Arduino (white sticker on the MCU chip)
Be sure it has the USB connector pointing forward
2. Connect Battery, switch, motor according to wiring diagram
3. Turn on the switch. Three LEDs should come on (binary firmware version, currently 7)
Then, all the LEDs should flash, the speaker should beep and the motor should run briefly
4. Press the button on the bottom. The motor should start running

Test 2 (rotation sensor)

1. Switch off
2. Press button, hold down while turning on
continue to hold button for about 3s and release
3. You should hear a series of beeps and a “chirp”
4. Wave your finger or another object in front of the optical sensor (right front on the bottom)
You should hear a series of short beeps.

If anything doesn't work as expected, make a note of the board number.