

Name _____

Date _____

1 Motor Car-bot with Touch Sensor and Lamp Pilot 2 Speed Test



Add a touch sensor to Port 2 and a lamp to Port C

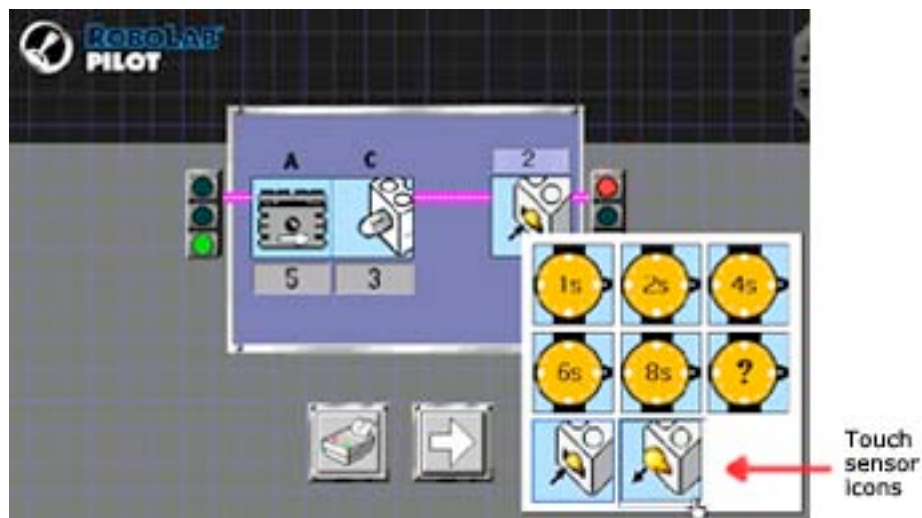
You will need:

- 1 Touch Sensor
- 1 Lamp
- 1 Short Wire
- 1 Long Wire

Pilot 2 Programming with 1-motor car-bot (1mcb)



1. Open Robolab
2. Go to **Pilot Level 2**
3. Program the **motor** connected to **port A** to go **forward at full speed (5)**
4. Program the **lamp** in **port C** to the **lowest power level (1)**



5. Program the **touch sensor** on **port 2** to stop the motor when **it is pressed in**.
6. **Download and run the program.** Hold the touch sensor in your hand and press it when you want the vehicle to stop.
7. Experiment with combinations by changing power levels for the lamp and motor. Also try selecting different directions for the motor.
8. Try the second touch sensor icon, which reacts when the touch sensor is released.
9. Complete the challenge on the next page.

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Pilot 2 Speed Test

Compare the speed of the **1mcb** with the different power levels
Use the yardstick to measure the distance

1. Speed on Rug

Original Speed	Power Level 1	Power Level 2	Power Level 3	Power Level 4	Power Level 5
inches per second	inches per second	inches per second	inches per second	inches per second	inches per second

2. Speed on Floor

Original Speed	Power Level 1	Power Level 2	Power Level 3	Power Level 4	Power Level 5
inches per second	inches per second	inches per second	inches per second	inches per second	inches per second

Pilot 2 Lamp Brightness

Test and rate the lamp's brightness on a scale from 1-10

Power Level 1	Power Level 2	Power Level 3	Power Level 4	Power Level 5