

Details about Tuff-Bot Features

Tuff-Bot Lights

- When you first turn on Tuff-Bot, the eyes will light orange and the rear lights will light red. These lights remain on until you turn off Tuff-Bot or until it goes to sleep.
- If you don't use Tuff-Bot for 5 minutes, it will enter low power mode and go to sleep, turning off all the lights. Press any button to wake up Tuff-Bot.

Tuff-Bot Commands

- When you turn on Tuff-Bot, its command list is empty. If you press **GO** at this point, Tuff-Bot will simply stay in place and play a sound (if sound is turned on).
- You can press Tuff-Bot's buttons to enter a sequence of up to 200 commands. A command is forward or backward movement, a turn, or a pause.
- Each forward or back command moves Tuff-Bot 20 centimeters (cm), or about 7.75 inches in the direction you specify.
- Each turn command causes Tuff-Bot to turn 45°, or 1/8 of a complete rotation.
- A pause command causes Tuff-Bot to pause for .half a second.
- When you press **GO**, Tuff-Bot will execute all the commands stored in order, with a short pause between commands.
- When the command sequence completes, Tuff-Bot will stop and play a sound. (You can turn sounds off and on using the Sound switch on the top of Tuff-Bot.)
- Pressing Go while Tuff-Bot is executing commands will stop the command sequence.
- Pressing the Clear button (**X**) will erase all commands in memory.

Avoidance Mode

- Pressing the Avoidance button turns on its green light.
- When activated, Tuff-Bot will back up when it sees an obstacle in its path and attempt to find an alternate route around it.
- During this mode, the 3 front lights turn red and Tuff-Bot plays a sound (if sound is on).
- To turn off Avoidance mode, press the button again and its green light will turn off.

Light Sensor

- Tuff-Bot can detect the amount of light in its environment.
- When Tuff-Bot enters a darker environment, its headlights turn on.
- The headlights will automatically turn on when it enters a brighter area.

Speed Modes

- Tuff-Bot has three Speed modes. When you first turn on Tuff-Bot, Mode 1 is active.
- To step through the different Speed modes, press the Speed button.
- Mode 1: The Speed button is not lit. Tuff-Bot pauses between each step.
- Mode 2: The Speed button lights. Tuff-Bot doesn't pause between each step when traveling in a straight line.
- Mode 3: The Speed button flashes and Tuff-Bot will not pause between each command sequence when traveling in a straight line. Additionally, turns will be executed more quickly for better performance on uneven surfaces.