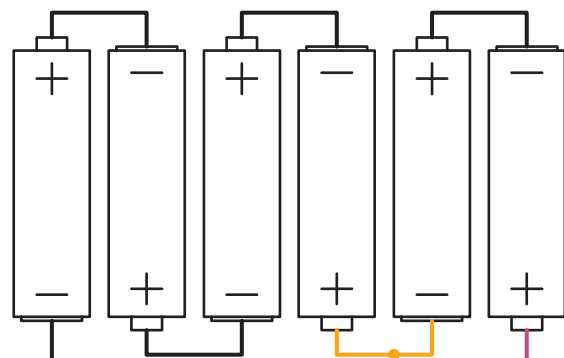


SCIENTIFIC TRUTH PROCLAIMERS: POWER CIRCUIT



6 AA Batteries power the robot.
We are using two different voltages:
6V for Motor Driver and Megaphone and
9V for the Arduino.

EVERYTHING IN THIS CIRCUIT SHARES
THE SAME COMMON GROUND!

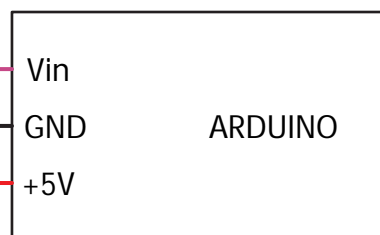
GROUND (-)

+6V

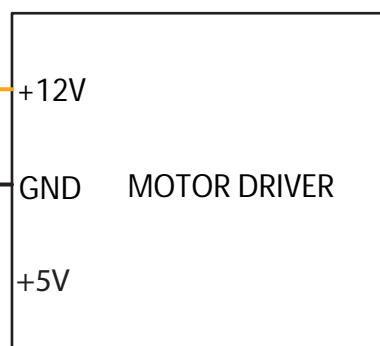
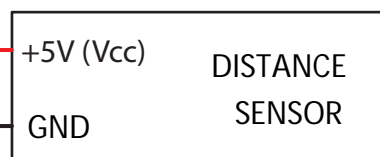
+9V

POWER
SWITCHES

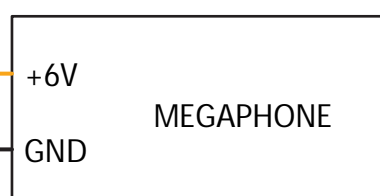
We need two power switches
because we must switch a 6V and a 9V circuit.



The Arduino has a built-in
voltage regulator that reduces
the incoming 9V to 5V.
Those 5V are then used to
power the distance sensor.



The Motor Driver uses two Voltages:
5V (provided by its own voltage
regulator) to power the logic
and 6V (connected to the 12V input)
to power the motors.



NOT CONNECTED