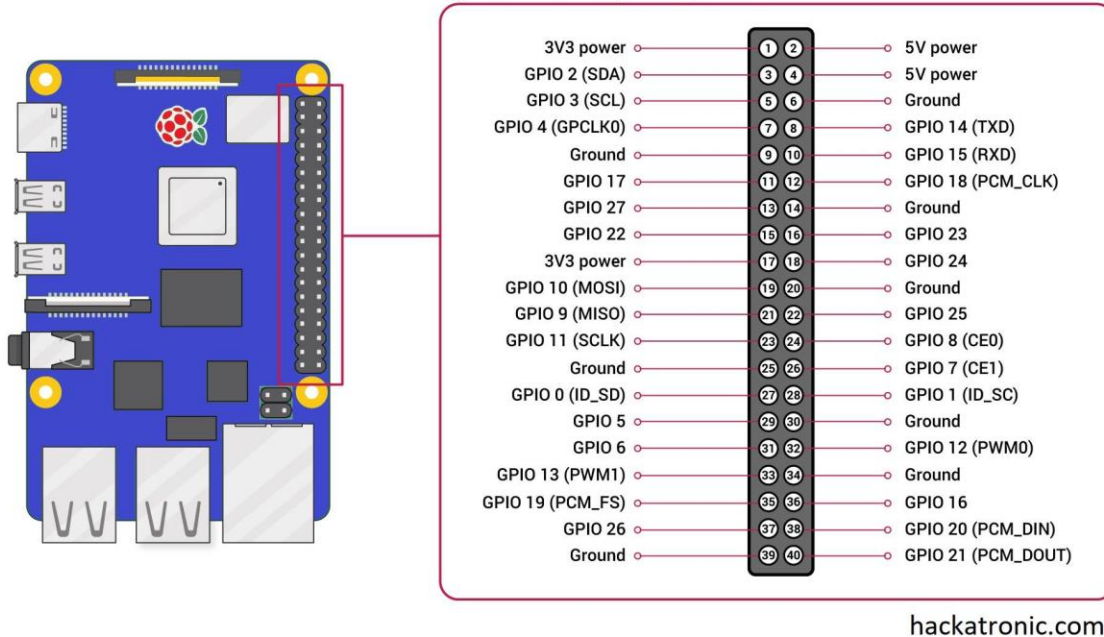


40 GPIO Pins Description of Raspberry Pi 4



Assigned Pins:

Headlights:

- GPIO 4 (positive, blue wire to pin # 7),
- Ground (black, negative wire to pin #9).

They are combined into one piece so just make sure it's the right way.

Motors:

- **Motor driver 1**, IN1/IN2: GPIO 23 & 24, purple wire to pin #16 and blue to #18.
- **Motor driver 2**, IN1/IN2 (or IN3/IN4 if dual output): GPIO 25 & 26, yellow wire to pin # 22 and purple to #37.

These may need to be switched if the tank is acting weird. Only switch one motor at a time. Can also be switched in the code, dealer's choice.

Laser:

- GPIO 6 (positive, white wire to pin #31)
- Ground (negative, yellow wire to pin #25)

Canon:

- Power: 3v (pin #1 white wire)
- GPIO 12 (pin #32 yellow wire)
- Ground (negative, pin #39 brown wire)

Note:

All wire color notes are for personal reference. Colors will vary depending on what you pick.