A diagram of a computer chip

AI-generated content may be incorrect.

**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 1: GPIO 23 & 24, purple wire to pin #16 and blue to #18.
* Motor 2: 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.

Laser:

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

Ground wire for laser may be a different color, but they should be taped together.

Canon:

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