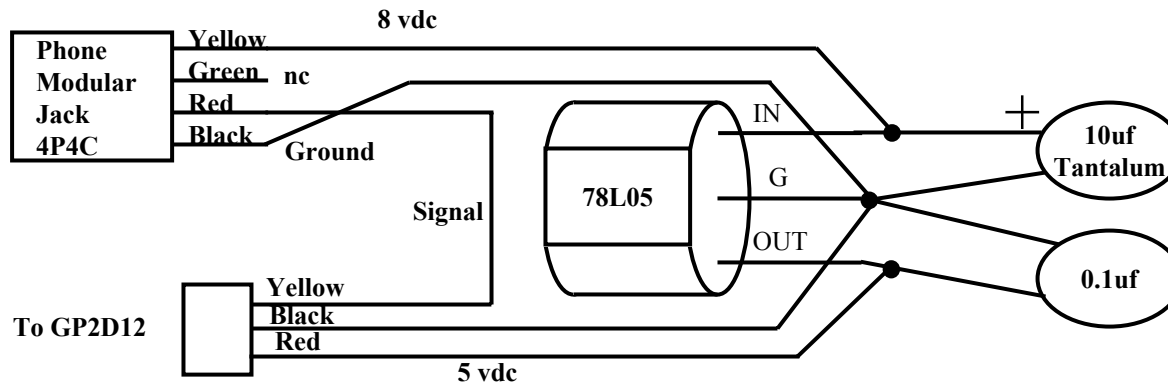


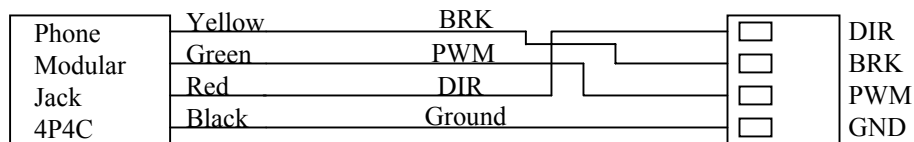
Hookup for GP2D12 with dedicated Voltage Regulator

The GP2D12 generates large voltage transients on the power supply input. This implementation dedicates a voltage regulator to each GP2D12 with associated capacitors hence keeping most of the noise local.

The amount of remaining noise reflected back into the modular jack is proportional to the size of the input capacitor (10 uf). The noise is under 100 mv peak-to-peak on both the ground and +8 vdc bus using 10 uf.



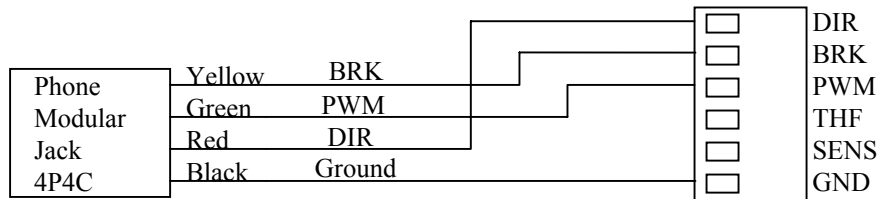
nc means "no connection"



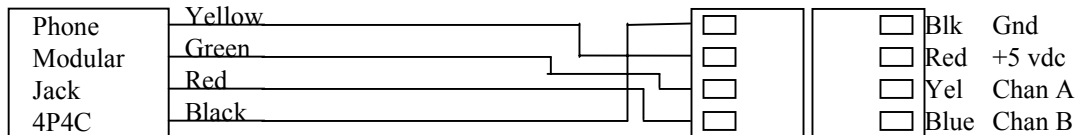
Connector for my H Bridge

Power wiring to h bridge

- 01 red wire to motor
- 02 blk wire to motor
- + 12 vdc
- Ground

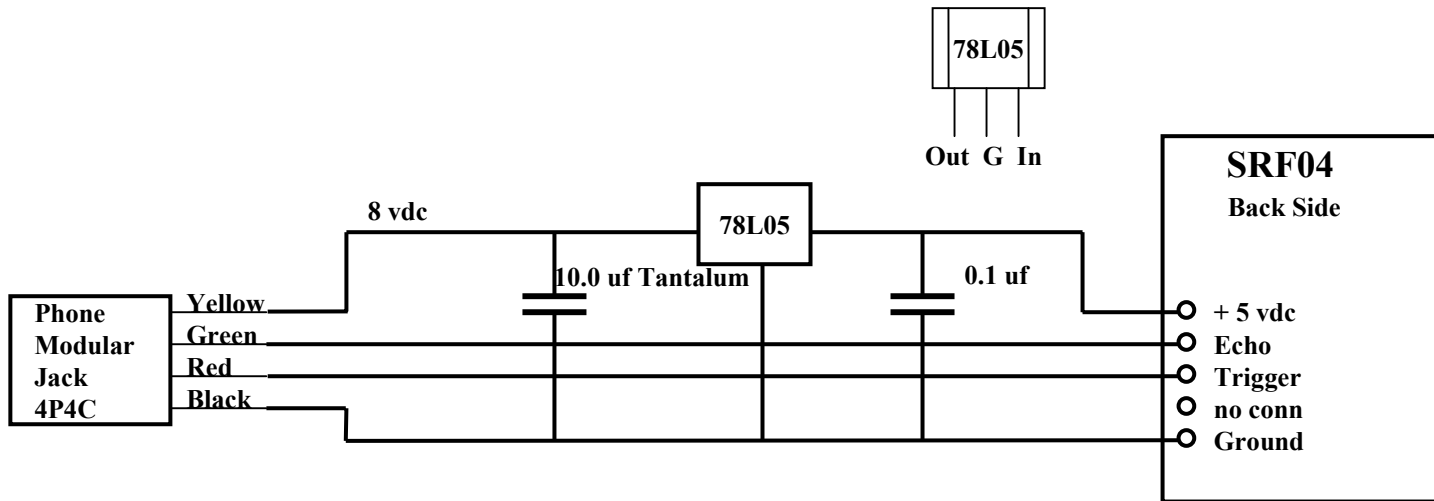


Connector for picobytes.com H Bridge

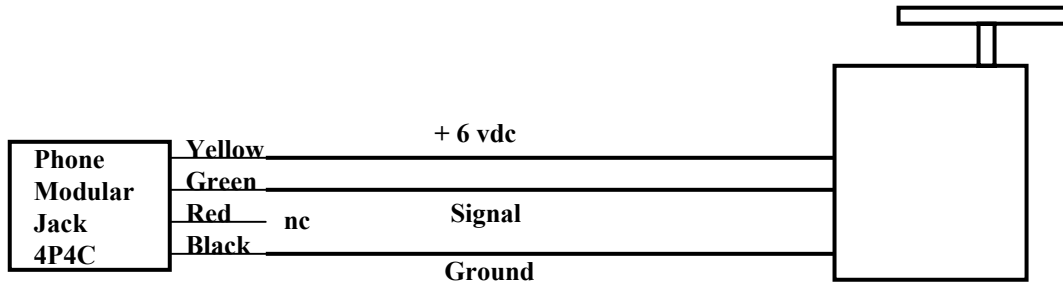


Connector for Pittman encoder

SRF04 Sonar



RC Servo

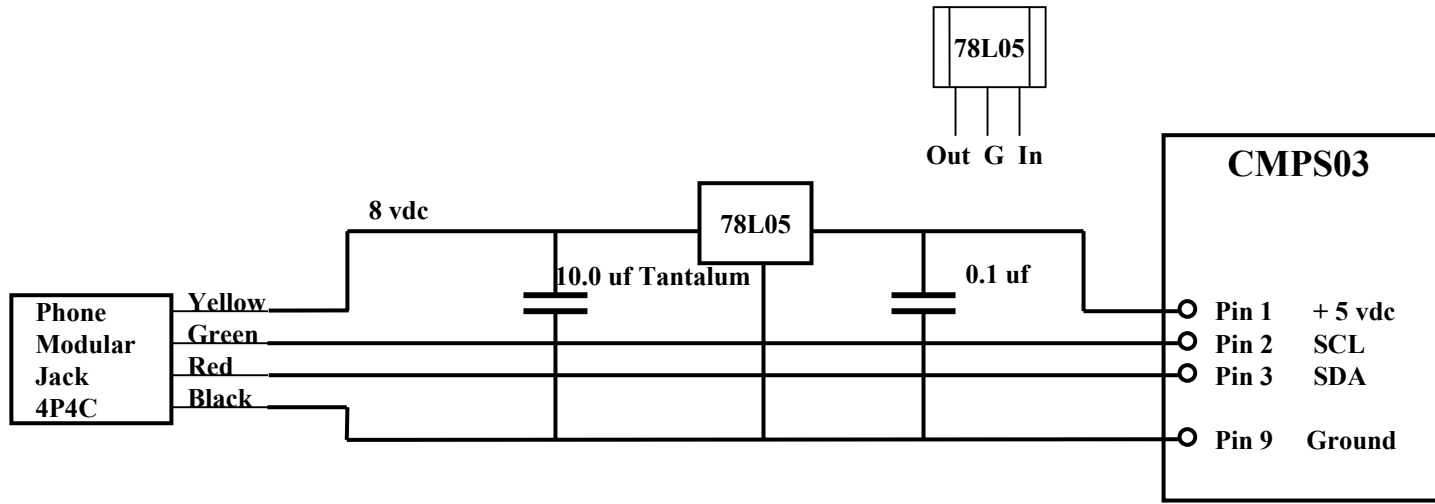


The wires of various RC servo manufacturers use different wire color codes and connector plug style. It is often a challenge to figure them out. Some examples follow:

Manufacturer	power	Ground	Signal
Airtronics/Sanwa old	Red, outside pin	Black, middle pin	White, inside pin
Airtronics/Sanwa Z	Red, middle pin	Black, outside pin	Blue, inside pin
Futaba J	Red, middle pin	Black, outside pin	White, inside pin
Hitec	Red, middle pin	Black, outside pin	Yellow, inside pin
KO Propo	Red, outside pin	Black, middle pin	Blue or White, inside pin
Kyosho/Pulsar	Red	Black	Yellow
Japan Radio(JR)	Red, middle pin	Brown, outside pin	Orange, inside pin

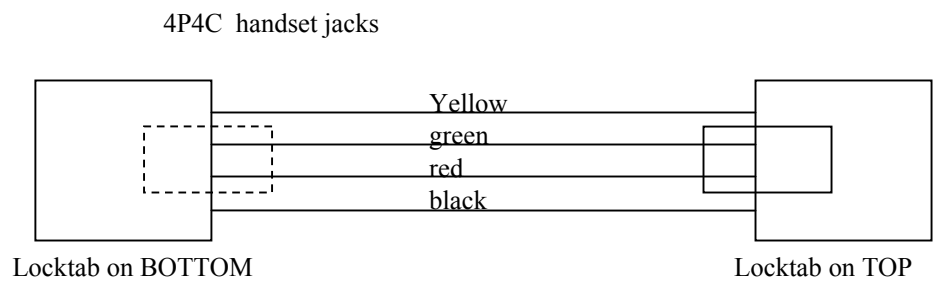
for more info, see: http://wolfstone.halloweenhost.com/TechBase/svoimt_RCServos.html

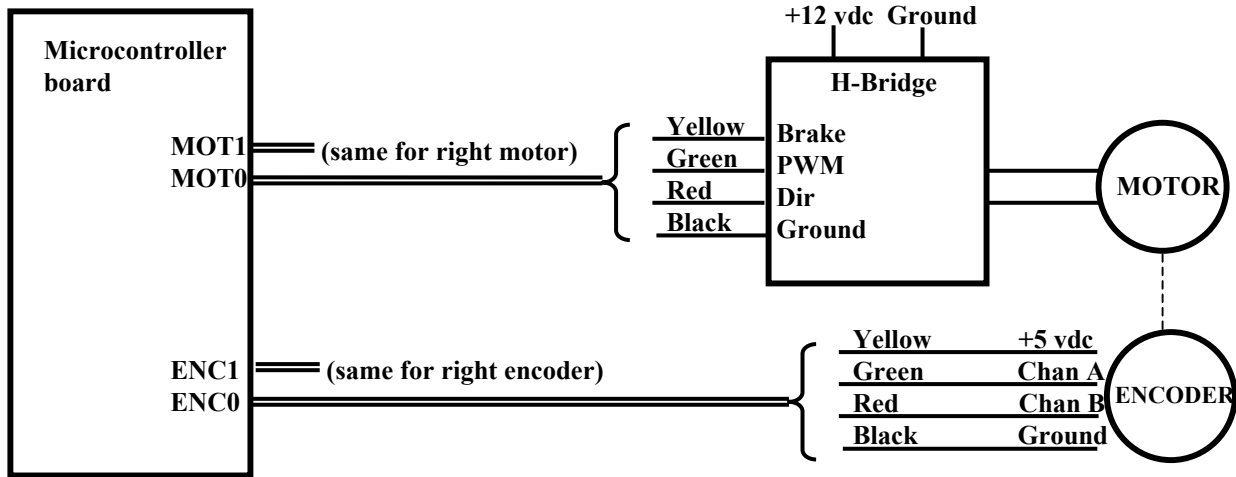
CMPS03 Compass



The CMPS03 card should be oriented so that the connection pins are toward the rear of the robot and aligned carefully for best accuracy.

Standard modular cord to connector setup.





Note: Channel A & B encoder wiring may be reversed depending on your installation