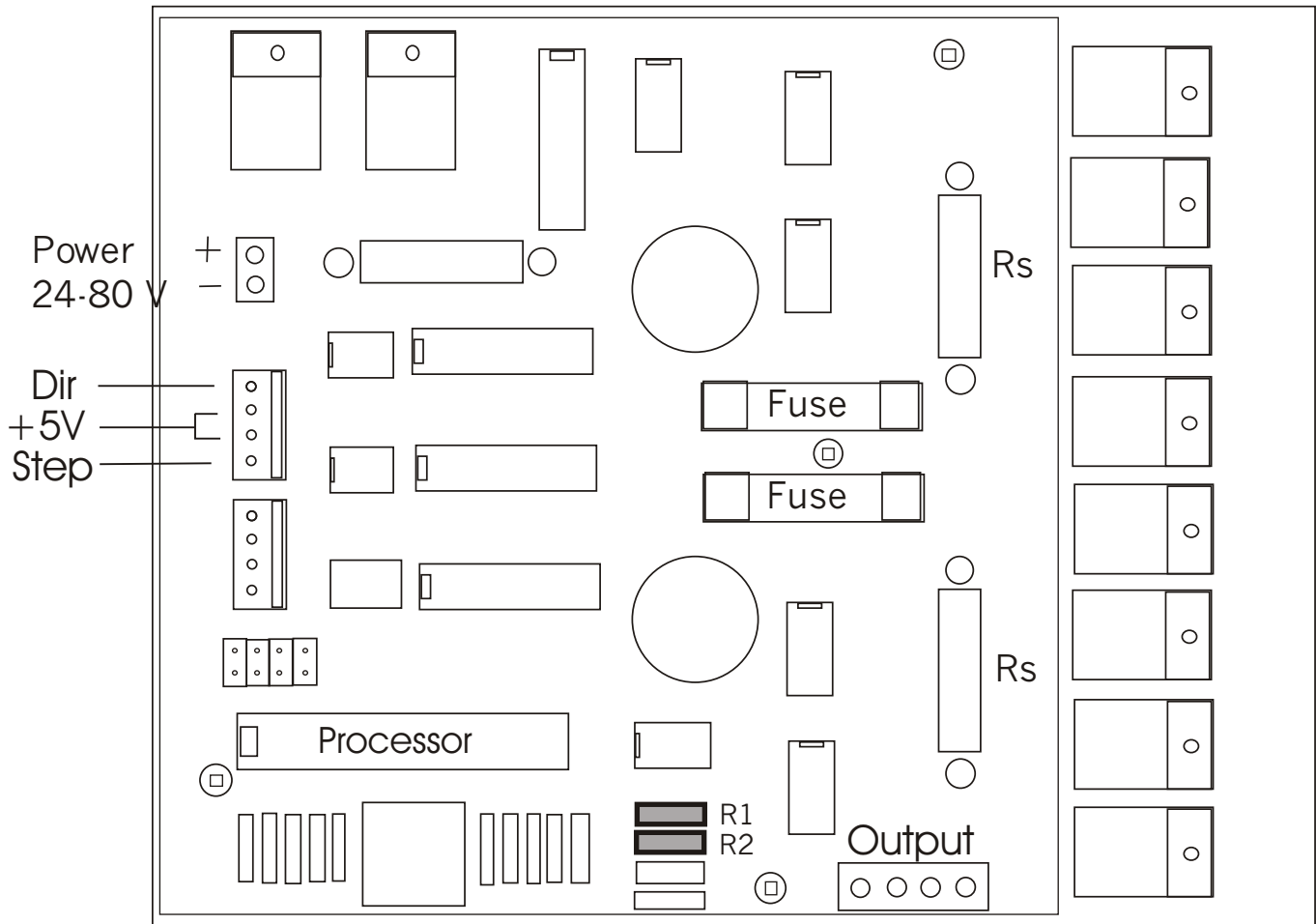


Cobra Stepper-Motor Driver Setup diagram

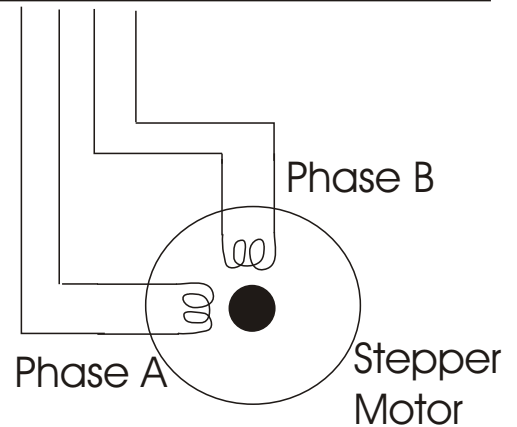


Setting the Current per phase

- Current is set by the value of R1 and R2.
- Both R1 and R2 should be the same.
- (Rs may be 0.1 or 0.05 ohms on your Cobra

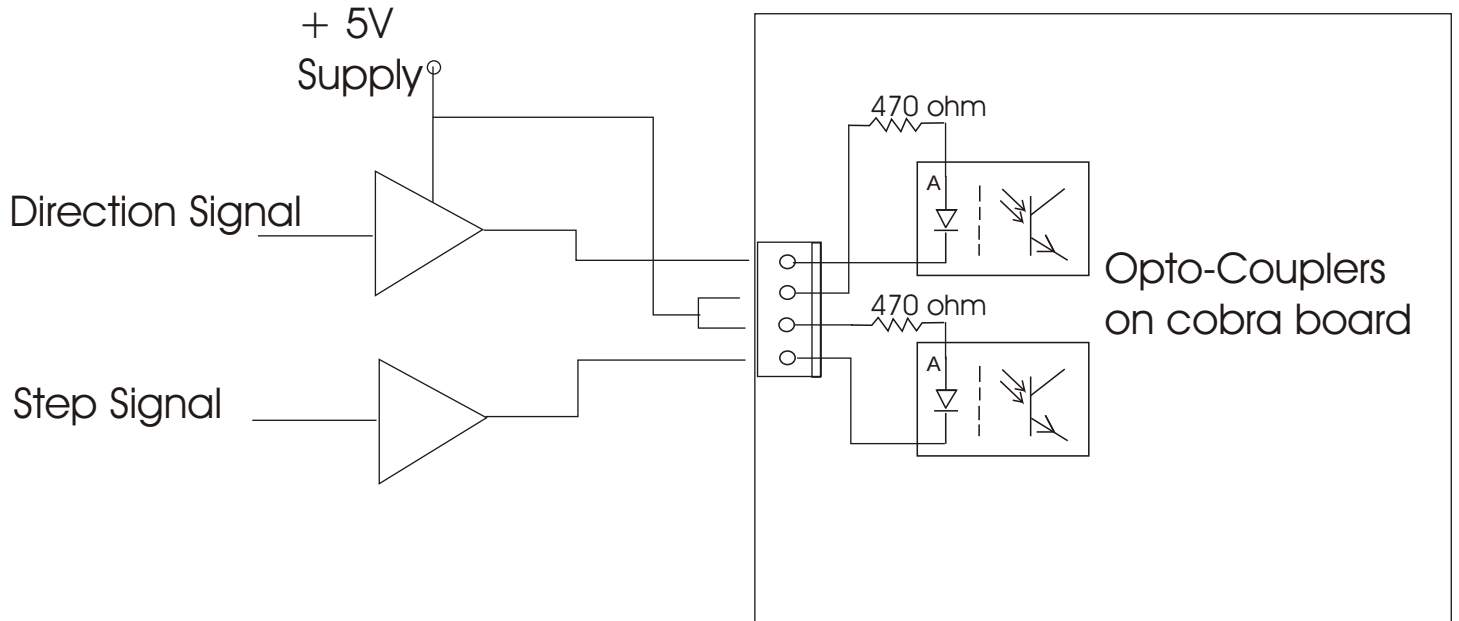
Please choose accordingly)

Current	RS=0.1	RS=0.05
8 Amp		4.2K
7 Amp		3.6K
6 Amp		3.0K
5 Amp		2.5K
4 Amp	4.0K	2.0K
3 Amp	3.0K	

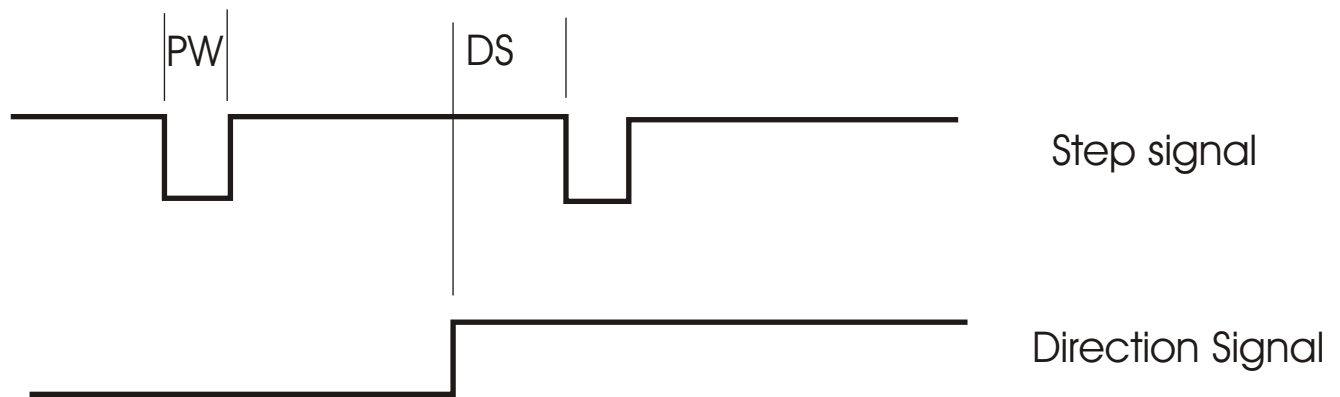


- Reversing the connections on one phase will reverse motor direction

Interfacing to step/direction logic



Logic Timing



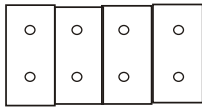
PW - Pulsewidth = 4 microseconds minimum

DS - Direction Setup time = 2 micro seconds minimum

Max steps/second = 50,000

Jumpers

A B C D



Processor

	Jumpered	Open
A	serial controlled	step/dir interface
B	No powerdown	50% powerdown
C		
D	1/4 stepmode	1/8 stepmode

Note: Power must be turned off and then on for jumper changes to accepted

Notes

- Output wires to stepper motor cannot be shorted to each other or ground or damage will occur.
- Bad or loose connections can cause drive failure.
- Mount driver to chassis or suitable heat sink . Bolts are 10-24 thread
- Keep power supply wires under 10" long to main filter capacitor.
- Keep output wires away from circuits and inputs to prevent noise.