

## ***Do's and Dont's:***

1. Do read all the instructions first before starting on project.
2. Do check all your control wiring carefully before applying power.
3. Do double check you power connections, look for reversed polarity.
4. Do watch out for Static electricity (from you) when working with the circuits.
5. Do keep in mind how much power you need for your project. Is power supply big enough?
6. Do watch for over heating of parts on heatsink, motor or anything else you are driving.
7. Do use the Load Chart, it might save your parts, and you, from smoking.
8. Do run circuit in open air if it's going to be powering (Power) stuff. Is heatsink getting hot?
9. Do leave the Diodes alone (black things on back), they protect the circuit and your stuff.
10. Do keep area under or around circuit(s) free of metal or other conducting materials.
11. Do stay in area while Circuit is powered. 2 year olds and pet's love to mess with your stuff.
12. Do be extremely careful when using 110 VAC wall power.
13. Do get Proper ADULT help when wiring to 110VAC. It can KILL.

1. Don't forget to read all the instructions, it's easy to cook the circuit with bad connections.
2. Don't spin a (freewheeling) DC or Stepper motor, as it will act like a generator and put high voltage pulses back to the circuit and damage protection Diodes, drivers, and other parts.
3. Don't "reverse" a spinning DC motor with the driver circuit. Stop it first! See don't #2.
4. Don't let Stepper motor get to hot, it can permanently reduce the internal magnets power.
5. Don't keep the shaft of a DC motor from turning (stalled), it can make the driver get real hot or burn out the motor brushes or windings.
6. Don't take Stepper apart, doing so will permanently reduce the internal magnets power.
7. Don't reverse polarity on any power input connections, positive only goes to positive.  
Reversing power is the "fastest way to FRY" your circuit, it ruins your day too.
8. Don't put more than 5 volts DC on any TTL input, like the DIR and CLK on the BE-SP6.
9. Don't Ground (Short to Negative) a TTL Output.
10. Don't expect weak power supply's to power high power projects. Cooks the supply?
11. Don't "Short" or draw a lot of current from the internal 5 volt power. Regulator will get HOT.
12. Don't take Diodes (black things) off the back. If you burn one, or take it out, the circuit is no longer protected from high voltage spikes, and is then easily cooked.
13. Don't put circuits in or near water, they run best when dry.
14. Don't put circuit in closed box with no airflow if it's going to be running with hot heatsink.
15. Don't even think of powering the BE-SP circuit(s) with AC transformer or 110V wall power.
16. Don't use 110VAC wall power unless you have ADULT help, 110VAC can Kill you.
17. Don't let young children or pets around your circuits, spilled drinks can ruin your day.