

## LED Status Indicator

### LED Blink Codes:

At power up, # of green blinks indicates configured throttle type:

- 1 Green = 0-5k-ohm
- 2 Green = 5k-0-ohm
- 3 Green = 0-5 Volt
- 4 Green = EZ-GO inductive (ITS)
- 5 Green = Yamaha 0-1K
- 6 Green = Taylor-Dunn 6-10.5V
- 7 Green = CLUBCAR 5K-3-wire

### Normal display status:

Solid Green: Controller ready to run

Solid Red: Controller in programming mode

Solid Yellow: Controller throttle is wide open, controller is supplying max output, and is not in current limit.

## Trouble Shooting

**Error code display:** # of RED blinks indicates any error conditions that might exist:

- 1 Red = Throttle Position Sensor Over Range. Check for open wires.
- 2 Red = Under Temperature. Controller below -25C
- 3 Red = HPD. Throttle hasn't gone to zero during this power on cycle.
- 4 Red = Over Temperature. Controller over 95C
- 5 Red = unused
- 6 Red = Battery Under Voltage detected. Battery V < under voltage slider
- 7 Red = Battery Over Voltage detected. Battery V > over-voltage slider



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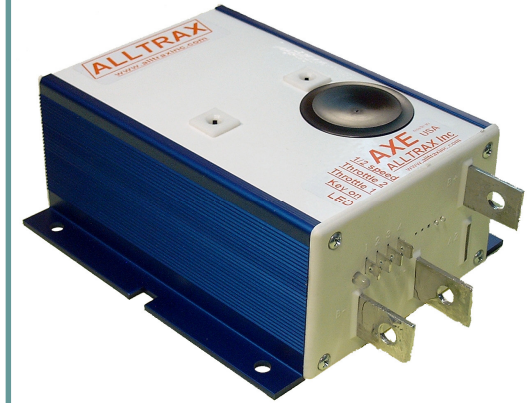
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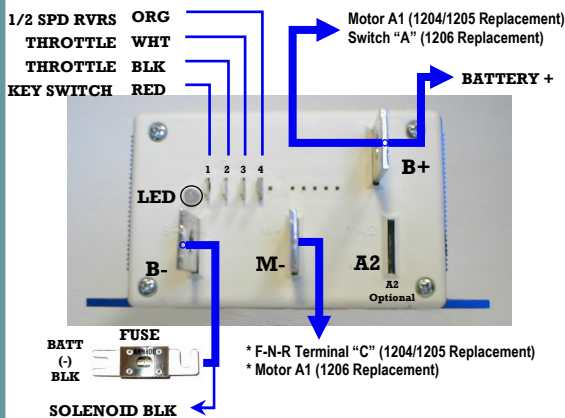
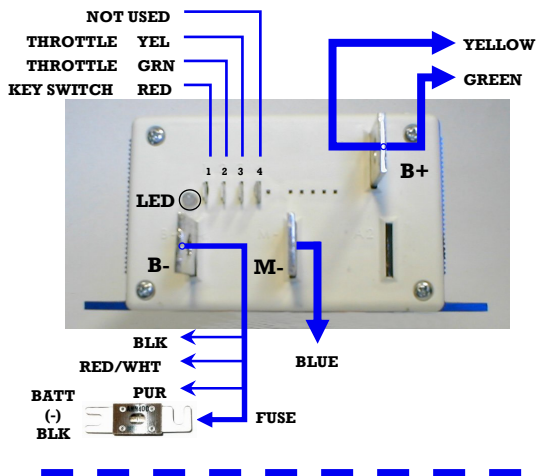


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# QUICK INSTALLATION GUIDE

## Club Car & E-Z-GO Wiring Diagrams



For complete instructions and wiring diagrams for other configurations and vehicles, please download our AXE Manual from [www.alltraxinc.com](http://www.alltraxinc.com)

*Not all controllers use the A2 terminal. If not, bolt the two wires together, insulate with tape or heat shrink, then secure in safe location.*

## ControllerPRO

ControllerPRO is free user friendly software for customizing your Alltrax AXE Controllers. Download your copy of ControllerPRO from: [www.alltraxinc.com](http://www.alltraxinc.com)

## Configuration

**WARNING:** Disconnect all battery charging sources while programming your AXE controller. The controllers RS-232 serial port is referenced to the B- battery connection. **Beware of any possible ground loop faults between your computer and the controller which could damage both the AXE Controller and PC, or cause personal injury.**

**Hardware:** Use a STRAIGHT-THROUGH DB-9 pin / RS-232 serial interface cable to connect the controller to the PC. Alternatively use the preferred DB-9 pin RS-232 serial port to USB adapter.

The AXE controller must be powered before the ControllerPRO program will have any effect. Before programming the AXE, **READ THE SAFETY NOTES BELOW.** For bench programming prior to installation, a fused 18V or higher battery may be used to power the controller. Connect battery negative to the B- bus bar, battery positive to pin 1.

If you see an error "**Motor Controller is Not Responding**", verify the controller is powered up and the connections are inserted correctly. If the error message continues, uninstall then reinstall the drivers for the communications cable. If the problem persists, contact Alltrax Technical Support.



## Safety Notes:

Alltrax recommends that all motor controller applications have a fuse in the battery circuit. Many vehicles do not have a fuse, and will need to have one installed. The following fuses manufactured by Bussman or Littelfuse are acceptable: For controllers rated at 400 amps or less use ANN250. On controllers rated at 450 amps or more use ANN400. [See: Doc100-016-A\_OP-Fuse-Install-Guide.doc]

Alltrax also recommends a diode across the coil of the solenoid if it is not already installed. A minimum of a 100V 1A diode (a 1N4004 is suitable) is required. See complete wiring diagrams for orientation.

Working on electric vehicles, sudden unexpected events can occur, it's recommended to:

- Place the drive axle on jack stands—wheels off the floor
- When working on wiring or batteries, always remove rings and watches
- Use the proper safety equipment, eye protection, and insulated tools
- Never connect a computer while the vehicle is being charged
- Disconnect batteries before installing or working on the controller

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