ASI ACCELERATED SYSTEMS INC.

E.R.T.
Electric Race Technologies
ULTRA HIGH PERFORMANCE

Sur Ron Controller Upgrade

User Manual

ASI BAC Sur Ron Kit Contents
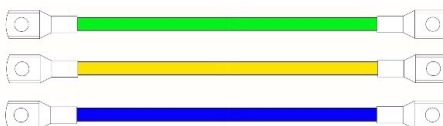
BAC2000 / BAC4000

Plug and Play Harness
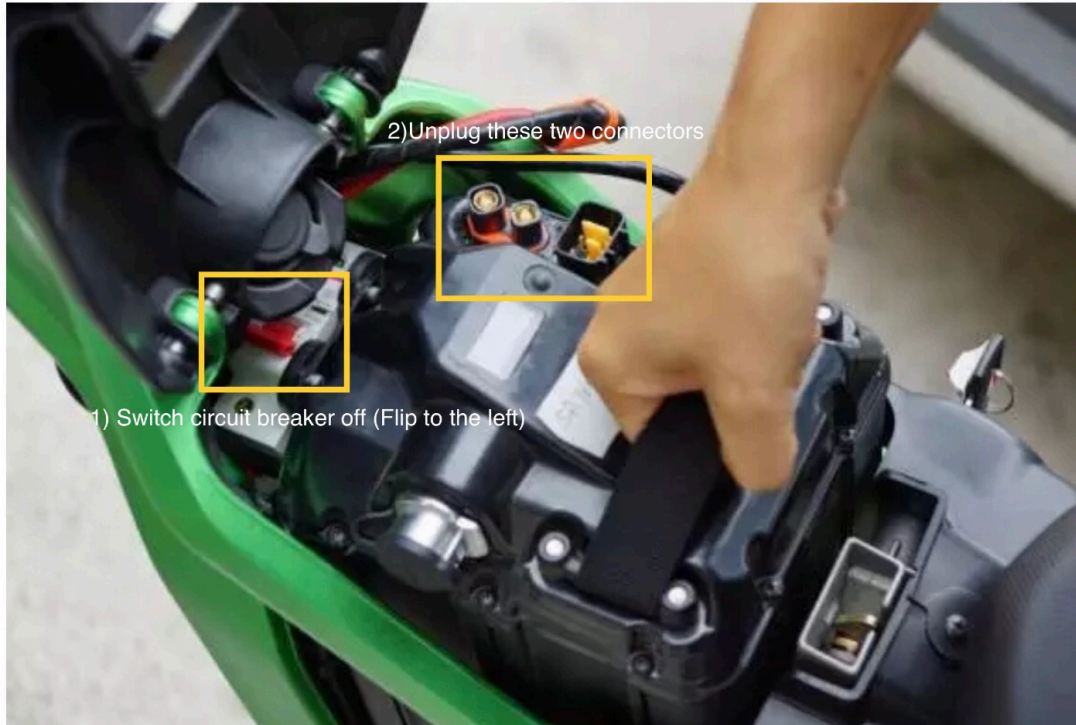
NXT
Display

Controller Bracket

Regen Throttle

Motor Extension Block

Motor Extension Cables

Installation

Disconnect Power

2)Unplug these two connectors

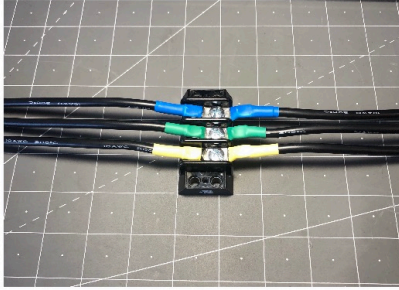1) Switch circuit breaker off (Flip to the left)
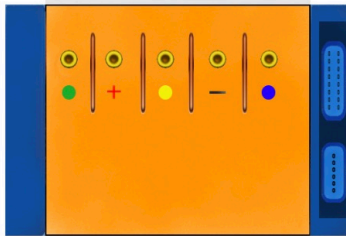
Uninstall factory controller

You must uninstall the factory controller first by removing the bash guard and other various parts. Once you unbolt the factory controller from the Sur Ron then you can begin installation on the ASI BAC controller.
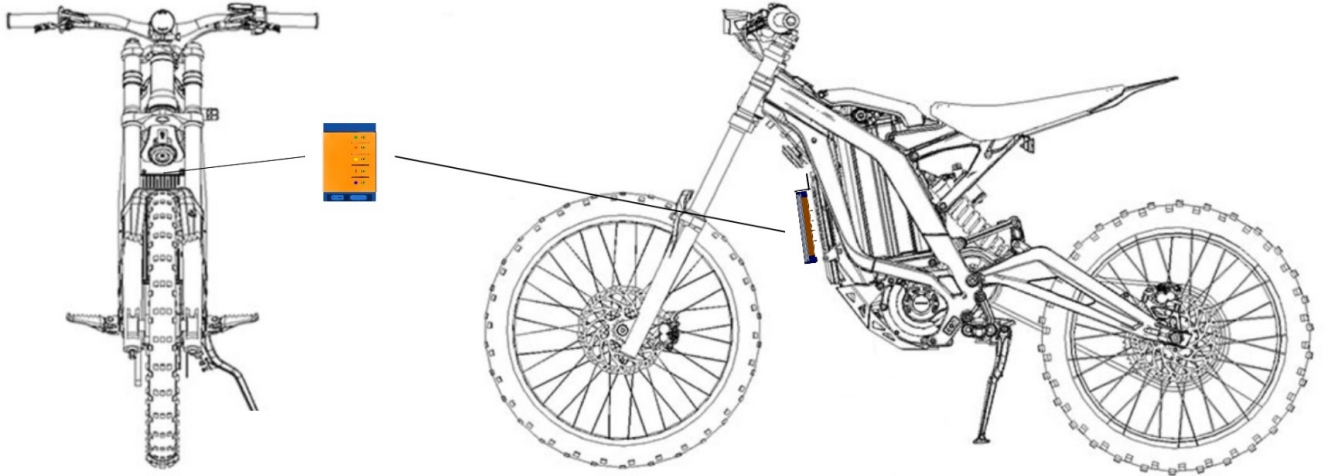
Installation 2

Motor Extension Cables

Use the supplied motor extension cables to extend the leads on Sur Ron motor. You will need to use the terminal block, stack and fasten the motor extension lugs to it. Make sure to color match the extension cables with the corresponding cable from the motor.
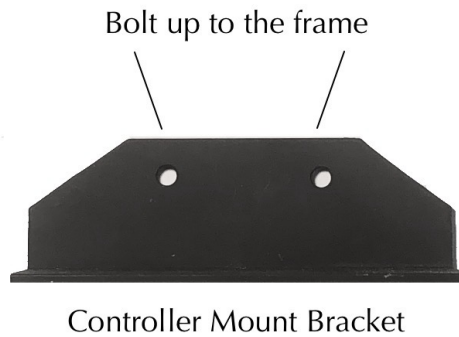

Fasten the motor extension lugs to the controller. Green, Yellow, and Blue are correspond to each motor cable, be sure to color match them
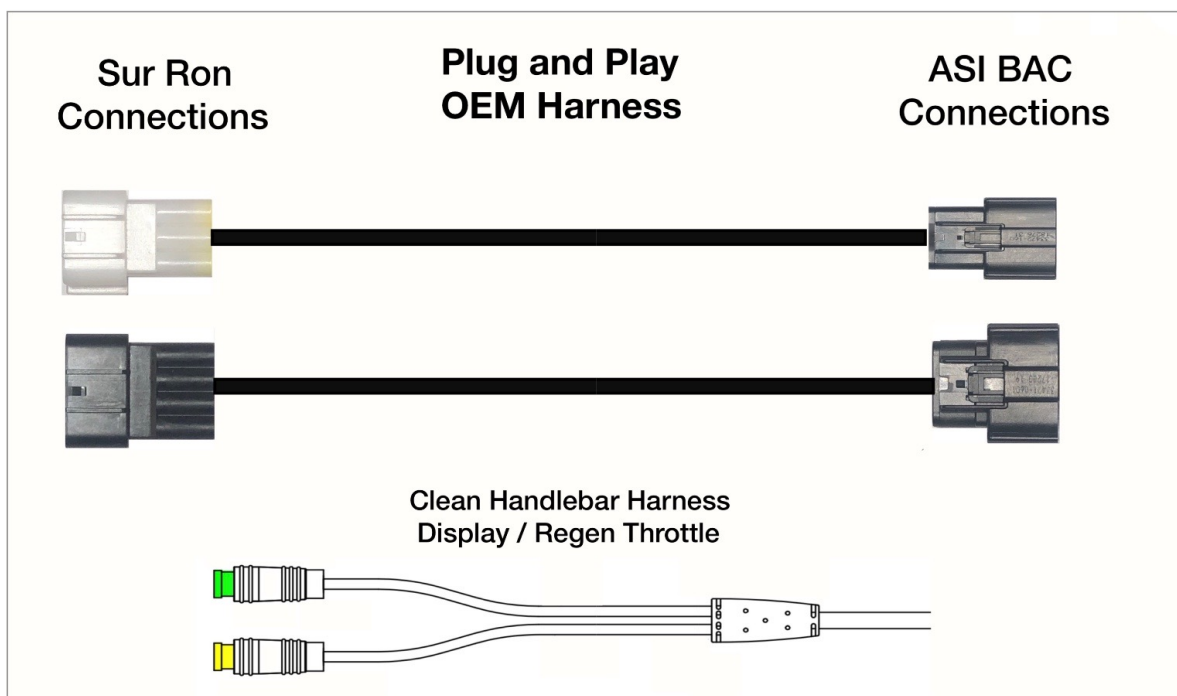Now fasten the red and black cable lug from the Sur Ron to the controller.

Installation 3

The controller mounting bracket is provided to allow for a clean and easy installation.
You will be using the two bolts from your Sur Ron's tilt sensor to fasten the BAC controller, and the controller mounting bracket to the frame. The controller heatsink should be facing outward.

Bolt up to the frame
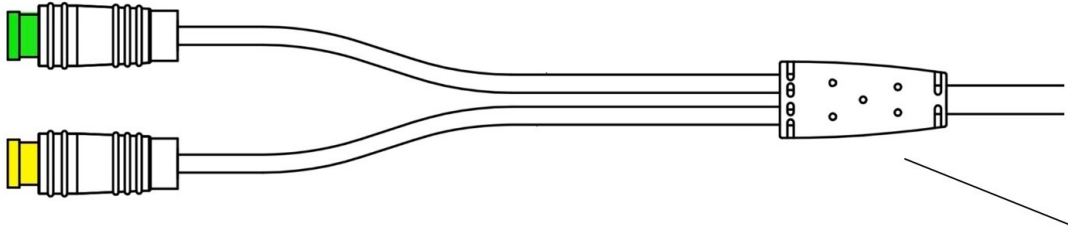

Controller Mount Bracket

Once the controller has been mounted. Plug in the Molex connectors to the ASI Controller and route them up into the frame, they will connect to their mating connectors on the Sur Ron

Sur Ron Connections	Plug and Play OEM Harness	ASI BAC Connections

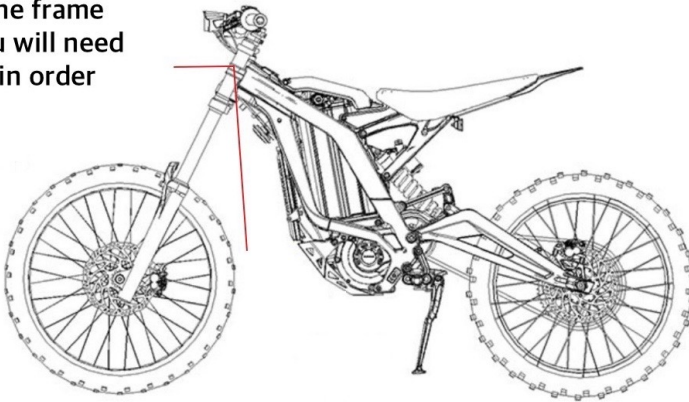Clean Handlebar Harness
Display / Regen Throttle

To ASI BAC Controller
Harness
Molex Connector

Regen Throttle

harness in thru the frame
tion however you will need
gnition assembly in order
To do so

rness has been routed to the handlebars, now you can install the
splay Unit, and regen throttle. They will connect to their own
nding connectors on the harness.

Accessory Installation on Handlebar

TFT Color Display
Center Mounted

en Throttle

Display

The ERT ASI BAC Kit uses the NXT display for visual information, tuning, and even diagnostics.

Although your BAC controller is already pre-configured and ready to run.

The NXT display can be used to setup the BAC in the event that the motor does not run, misconfigured, or if there is an issue preventing the system from running properly.