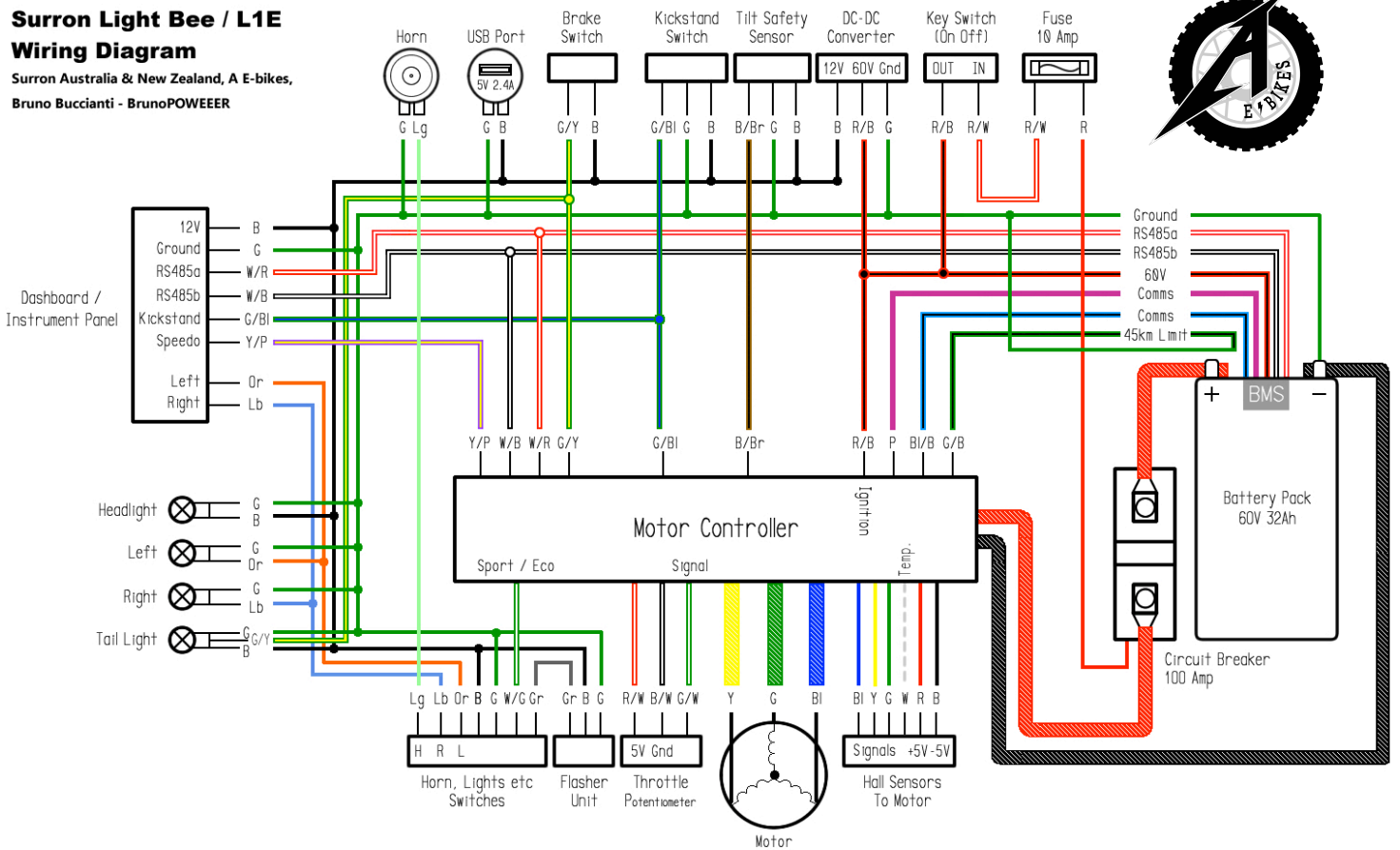




AUSTRALIA - NEW ZEALAND

Surron Light Bee / L1E Wiring Diagram

Surron Australia & New Zealand, A E-bikes,
Bruno Buccianti - BrunoPOWEEER



- Legend**
- B Black
 - Bl Blue
 - Br Brown
 - G Green
 - Gr Grey
 - Lb Light Blue
 - Lg Light Green
 - Or Orange
 - P Purple
 - R Red
 - W White
 - Y Yellow
 - B/Bl Black-Blue
 - B/Br Black-Brown
 - B/W Black-White
 - G/B Green-Blue
 - G/W Green-White
 - G/Y Green-Yellow
 - R/B Red-Black
 - R/W Red-White
 - W/B White-Black
 - W/R White-Red
 - Y/P Yellow-Pink

- Battery Power**
- Red +60VDC (battery positive)
 - Black -60VDC (battery negative)
- 60V to Wiring Harness**
- Red +60VDC (battery positive)
 - Green -60VDC (battery negative)
- Ignition key-switch (fused)**
- Red-White (IN) +60VDC
 - Red-Black (OUT) +60VDC activates motor controller, 12VDC
- Motor**
- Yellow Motor Phase
 - Green Motor Phase
 - Blue Motor Phase
- Motor Hall Sensors**
- Red +5VDC (powers the sensors)
 - Black -5VDC (powers the sensors)
 - Blue Hall sensor signal output (pulsing 5V)
 - Yellow Hall sensor signal output (pulsing 5V)
 - Green Hall sensor signal output (pulsing 5V)
- Motor Temperature Sensor**
- White thermistor (temperature-sensitive resistor)
- Throttle / Accelerator**
- Red-White +5VDC
 - Black-White Negative
 - Green-White Throttle Output/Signal (0.83 to 3.62V)

- Comms / Data (Battery-Controller-Display)**
- White-Red RS485a (data/programming/diagnostics)
 - White-Black RS485b (data/programming/diagnostics)
- Comms / Data (Battery-Controller)**
- Purple Comms/data between controller and battery
 - Black-Blue Comms/data between controller and battery
- E-Brake Cut-Off**
- Green-Yellow Normally open (0V) or 12V brakes engaged
- Tilt Safety Sensor**
- Black-Brown Normally +12V output / Error 0.36V output
 - Black +12V
 - Green Ground / Negative
- Kickstand**
- Green-Blue +6V Output signal
 - Black +12V
 - Green Ground / Negative
- Sport / Economy Modes**
- White-Green open switch Eco / closed Sport mode
- Electronic Speed Limiter (45km/h max)**
- Green-Black 5V signal, cut or join the loop wire to disable Loop Wire(Green) Ground / Negative
- Front Light / Headlight**
- Headlight Harness**
- Black +12V
 - Green Ground / Negative
- Headlight (3 possible circuits, not shown in diagram)**
- Green Ground / Negative
 - White Top light / High Beam
 - Blue Bottom light / Low Beam
 - Brown 6 small LEDs
- Indicators / Flashers / Blinkers**
- Grey +12V Blinker/flasher output
 - Green Ground / Negative
 - Blue Right Indicator Lights
 - Orange Left Indicator Lights
- Rear / Tail Brake Light**
- Green-Yellow +12V brake light (e-brake)
 - Black +12V red tail light
 - Green Ground / Negative
- Horn**
- Light-Green +12v
 - Green Ground / Negative
- USB charger (5V 2.4A output)**
- Black +12V
 - Green Ground / Negative

