

Fig 3

- Phillips Screw Driver #2 - 10mm Wrench or Socket - 5mm Allen Wrench

IMPORTANT - PLEASE READ CAREFULLY

We recommend that this performance part be installed by a qualified motorcycle technician. If you have any doubts as to your ability to install this performance part, please consult with your local motorcycle dealer. Read all instructions first before starting installation. Make sure the vehicle and exhaust system are completely cool before starting the installation. Also, make sure the vehicle is secure during installation. Be sure to save all stock components for possible use later.

The Juice BoxTM is legal ONLY for closed course race vehicles. The Juice BoxTM is not applicable, nor inteded for use on EMISSIONS CONTROLLED street, highway or off-road vehicles. The Juice BoxTM is not applicable, nor inteded for use on aircraft.

Warranty

Two Brothers Racing warrants that this product carries a warranty for 2 years from date of purchase against original defects in materials and workmanship. Should this product fail to perform for either of the above reasons, Two Brothers Racing will repair or replace it with an equivalent product at no charge, except for postage, to the original retail purchaser.

To obtain the benefits of this warranty, the retail purchaser must return the product and proof of purchase to the place of original purchase.

 Remove the 4, 5mm Allen bolts, (Fig 6) and while lifting air box lid you will need to disconnect the crankcase breather hose from the gearbox (Fig 7).





7. The JUICE BOX[™] will be placed under the seat so you need to thread the JUICE BOX[™] wires towards the front of the bike under the gas tank support plate towards the throttle bodies. You can remove the tank support plate by removing the 2 10mm bolts (Fig 8). Locate the injector connectors and disconnect the stock connectors and plug the JUICE BOX[™] grey connector onto the bikes injector, and then plug the stock connector into the JUICE BOX[™] black connector repeat on remaining cylinder (Fig 9).





- Connect JUICE BOX[™] ground lead to the negative post of the battery.
- 9. Assembly is the opposite of disassembly.

Fig 5

(Fig 3). Disconnect the green connector from the solenoid

then remove solenoid from air box (Fig 4). Remove all of

the air box screws 7 total (Fig 5) and remove lid.



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Two Brothers Racing

Juice Box[™] - Fuel Controller

2006-08 Kawasaki Ninja 650R Installation & Operation Manual Part # 008-142

Installation Instructions continued...

- 10. Start the bike. The green LED should scroll left to right and back for about 3-5 seconds and then go to 1-2 steady or slowly flashing green LED's. If the number 1 green LED and number 8 red LED's continue flashing after startup or idling, an injector wiring error is indicated. Re-check the wires from the JUICE BOX and make sure they are connected to the proper wire of your bike's stock harness. MAKE SURE you have the correct wires selected in the stock harness. DO NOT PROCEED UNLESS ABOVE CONDITIONS ARE MET.
- NOTE: Re check your wire routing and JUICE BOX[™] location and make certain that in no way the wires can come into contact with any moving parts or high heat source and that the JUICE BOX[™] is mounted in a way as to not cause a handling problem with the machine.



 It is recommended that the pre-programmed settings of the Juice Box[™] be used. However, the Juice Box[™] can be adjusted to suit different engine modifications, states of tune and environmental conditions. To begin this process, press the mode button. To enter each successive mode, just press the mode button again. Note that every mode will be identifiable by the color(s) of the flashing LED(s) on the LED display. There are six modes that are distinguished by an LED color or color combination. The 6 modes are as follows, respectively: Green, Yellow, Red, Green-Blue, Yellow-Blue and Red-Blue.

2. You are now ready to manually program each mode. Consult the base settings supplied with the unit.

To program the Juice BoxTM, the bike must be running in order to supply power to the Juice BoxTM.

Simply press the mode button to activate the first mode. If at anytime you stay in an adjustment mode for longer **than 5 seconds** without pressing any buttons, the Juice Box[™] will exit the adjustment mode and will return to the operational mode.

To save settings in a particular mode press the MODE button which goes to the next adjustable mode or wait for the Juice Box[™] to exit back to the operational mode.

The settings in each mode are adjusted by pressing the (+) and (-) buttons located on the right and left side of the mode button, respectively. For easy reference, the LEDs are numbered 1 through 8. However, the LEDs can be adjusted to the following positions: 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8. For example, in a particular mode, if LED 4 is flashing then the LED display is set to 4 in that mode. If the (+) button is pressed once then LEDs 4 and 5 will flash simultaneously and the LED display is set to 4.5. If the (+) button is pressed once again, only LED 5 will flash and the LED display is set to 5. The LED display can also be set to 0.5 by pressing the (-) button and scrolling the colored LED to position 1 and then pressing the (-) button once more until the LED in position 1 is flashing twice as fast as normal.

I. *The first mode* (Green Mode) represents an additional amount of fuel added under cruise conditions. A flashing green LED should appear on the LED display. To add more fuel, scroll the flashing green LED to the right using the (+) button. To add less fuel, scroll the flashing green LED to the left using the (-) button. If you set the flashing green LED to the 0.5 position on the LED display, no fuel will be added to the stock fuel curve.

II. *The second mode* (Yellow Mode) represents an additional amount of fuel added during acceleration. A flashing yellow LED should appear on the LED display. To add more fuel, scroll the flashing yellow LED to the right using the (+) button. To add less fuel, scroll the flashing yellow LED to the left using the (-) button. If you set the flashing yellow LED to the 0.5 position on the LED display, **no fuel will be added to the stock fuel curve**.

Operation Manual

III. *The third mode* (Red Mode) represents an additional amount of fuel added during full throttle conditions. A flashing red LED should appear on the LED display. To add more fuel, scroll the flashing red LED to the right using the (+) button. To add less fuel, scroll the flashing red LED to the left using the (-) button. If you set the flashing red LED to the 0.5 position on the LED display, **no fuel will be added to the stock fuel curve.**

Note: If the flashing green, yellow and red LEDs in modes 1 through 3 (Green, Yellow and Red) are set to the 0.5 position on the LED display then the Juice BoxTM will not add any fuel to the bike's stock fuel curve. This setting will essentially turn off the Juice BoxTM even though it is still attached to the bike's fuel injection system. The bike will run as though the Juice BoxTM is not installed. The Juice BoxTM LEDs will still operate normally even though no fuel is being added.

IV. *The fourth mode* (Green-Blue Mode) - Not Required for this particular model.

V. **The fifth mode** (Yellow-Blue Mode) is an adjustment to determine the time when the acceleration/Yellow Mode fuel amount turns on. A flashing yellow LED appears on the LED display while at the same time a flashing blue LED appears on the 8th LED. To increase the sensitivity and therefore cause the Yellow Mode fuel to turn on sooner, scroll the flashing yellow LED to the left using the (-) button. To decrease the sensitivity and therefore cause the Yellow Mode fuel to turn on later, scroll the flashing yellow LED to the right using the (+) button.

VI. *The sixth mode* (Red-Blue Mode) is an adjustment to determine the time when the full throttle/Red Mode fuel amount turns on. A flashing red LED appears on the LED display while at the same time a flashing blue LED appears on the 8th LED. To increase the sensitivity and therefore cause the Red Mode fuel to turn on sooner, scroll the flashing red LED to the left using the (-) button. To decrease the sensitivity and therefore cause the Red Mode fuel to turn on later, scroll the flashing red LED to the right using the (+) button.

If the unit requires cleaning, use a cloth that is only lightly dampened with water or mild detergent.



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Part # 008-142



Operation Manual - JUICE BOX™ Settings



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For additional settings please visit our website at www.twobros.com.