



2008-10 Suzuki BKing Installation Instructions



JUICEBOX^{PRO}

Premium Fuel Controller

PARTS LIST

- | | |
|---|--------------------|
| 1 | Juice Box Pro™ |
| 1 | USB Cable |
| 1 | Top Tune CD-ROM |
| 1 | Installation Guide |
| 2 | Velcro |
| 1 | Alcohol Swab |
| 1 | Wire Tap |
| 1 | O2 Optimizer |

FOR RACE USE ONLY

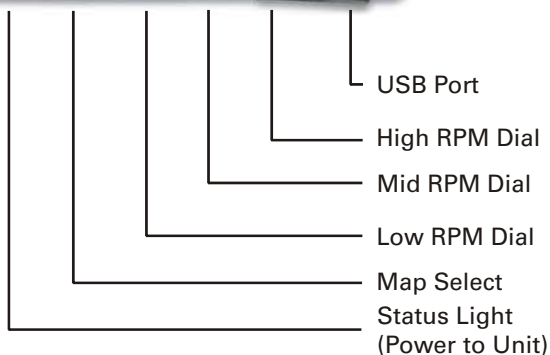
DOWNLOAD THE TOPTUNE SOFTWARE
AND LATEST MAPS FROM OUR
WEBSITE:
www.twobros.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

401 S. Grand Ave. Santa Ana, CA 92705
(800) 211-2767 www.twobros.com

JUICEBOX PRO[®]

Premium Fuel Controller



Selecting the Map Position

The Juice Box Pro comes loaded with up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. Refer to the map position table below for the maps included in your Juice Box Pro.

Using the RPM Range Dials

The Low, Mid, and High RPM Dials refer to the RPM range, in thirds, of your vehicle. Each dial allows +/- 10% fuel adjustment on top of what fuel changes are done in the map. With the dial facing straight up, there is no additional fuel change. For example, if your vehicle revs to 15,000 RPM:

- the low RPM dial will adjust 0-5000 RPM
- the mid RPM dial will adjust 5001-10000 RPM
- the high RPM dial will adjust 10001-15000 RPM

Using Top Tune

Take your tuning to the next level with the Top Tune software.

Installing the Top Tune Software

- 1 Insert the CD provided into your computer's cd-rom drive. The launch program will run automatically.
If auto-run is disabled, double-click the My Computer icon then double-click the CD drive icon. Double-click TBR TopTune.exe to manually start the CD.
- 2 Click Install Software and follow the on-screen instructions to install the Top Tune software. The Top Tune software and maps will be stored in C:\Program Files\TBR TopTune.
- 3 Click Map Database. All maps will automatically be installed to the C:\Program Files\TBR TopTune\maps folder.

Loading Additional Maps

- 1 Connect the USB cable from the computer to the Juice Box Pro. Verify the cable is fully seated in the Juice Box Pro.
- 2 Run the TopTune software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map. You can send the map to any of the ten map positions.

Altering Maps Using Top Tune

The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve by altering these values. The Top Tune software allows a value of +250 to -100 in each cell.

Position 0	Zero map	
Position 1	Stock exhaust Stock air filter	2008-2010 Suzuki BKing
Position 2	Two Brothers dual slip-ons Stock air filter	2008-2010 Suzuki B-King

WARNING

The ignition must be turned OFF before installation.

- 1 Remove the main seat and the passenger seat.
- 2 Using the prop rod located in the trunk area, hold the front of the fuel tank up.
- 3 Lay the Juice Box Pro in the tail section.
- 4 Route the Juice Box Pro harness down the left hand side of the bike towards the throttle bodies.
- 5 At the ECU, route the Juice Box Pro harness underneath the left hand frame spar as shown in Figure A.

- 6 Remove the bolt holding the tool kit box to the frame as shown in Figure B. This allows the Juice Box Pro harness to be routed behind this bracket.

- 7 Unplug the stock wiring harness from each injector as shown in Figure C.

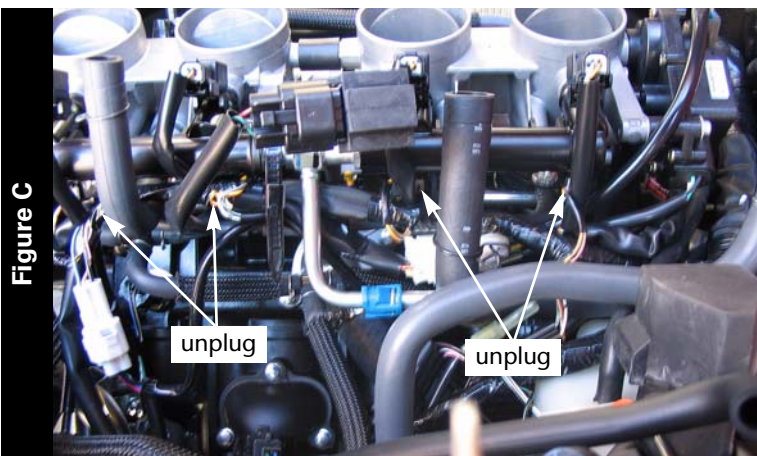
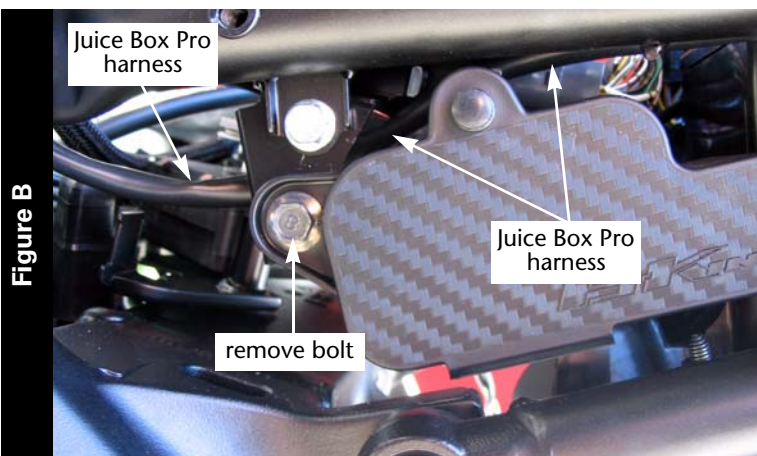
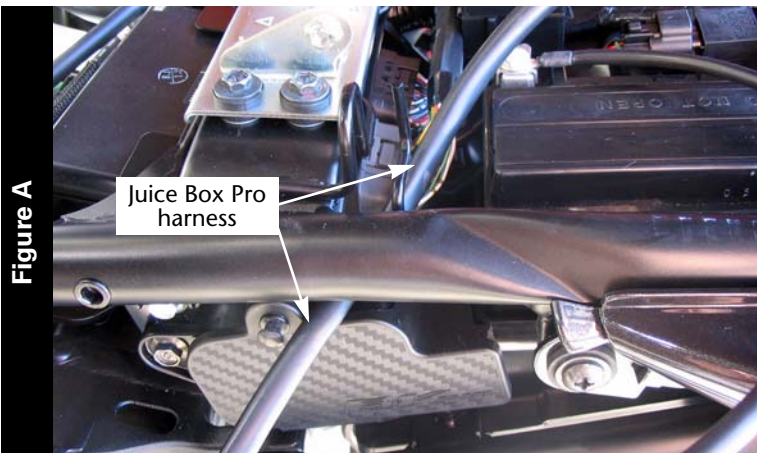
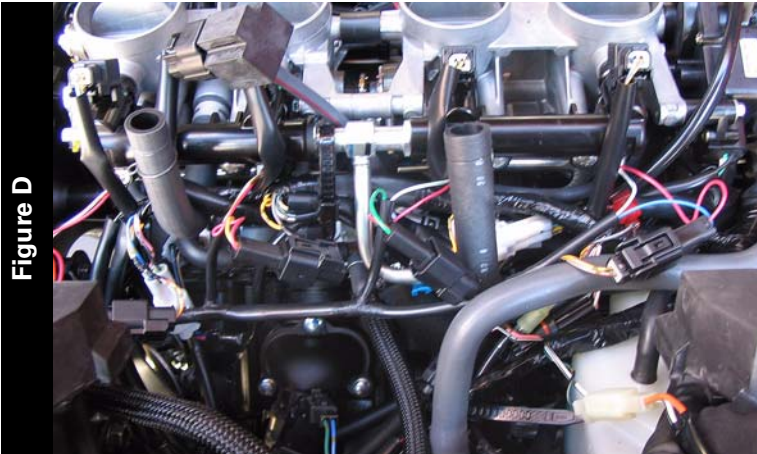


Figure D



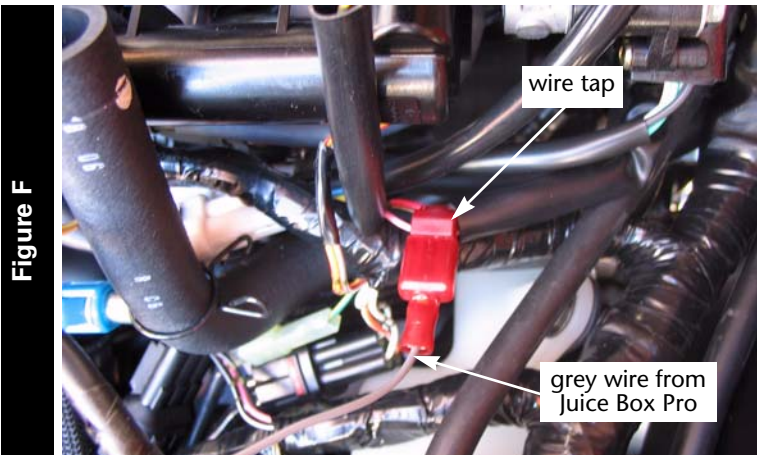
- 8 Attach the connectors from the Juice Box Pro to the injectors and the stock wiring harness connectors as shown in Figure D.
 - connect the orange wire to cylinder #1
 - connect the yellow wire to cylinder #2
 - connect the green wire to cylinder #3
 - connect the blue wire to cylinder #4

Figure E



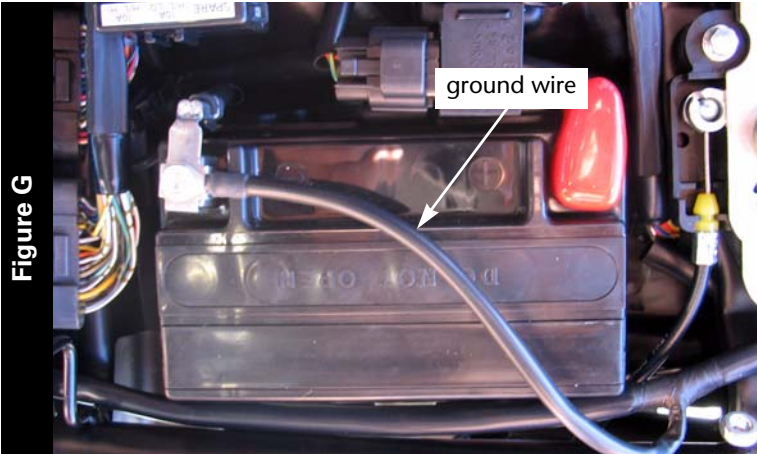
- 9 Locate the throttle position sensor (TPS) connector.
The TPS connector is located on the right hand side of the throttle bodies as shown in Figure E.
- 10 Follow the wiring harness from this connector back to where it joins the main wiring harness.

Figure F



- 11 Crimp the supplied wire tap to the pink/black wire of the TPS harness as shown in Figure F.
- 12 Connect the grey wire from the Juice Box Pro to the wire tap as shown in Figure F.
Note:It is recommended to use dielectric grease on these connections.

Figure G



- 13 Attach the ground wire from the Juice Box Pro to the negative side of the battery as shown in Figure G.

Figure H



- 14 Using the supplied velcro, secure the Juice Box Pro in the tail section as shown in Figure H.

Make sure to clean both surfaces with the alcohol swab before attaching.

- 15 Locate the stock O2 sensor connection.
- 16 Attach the O2 optimizer to the stock wiring harness.
The stock O2 sensor will not be connected to anything.
- 17 Lower the fuel tank back into position.
- 18 Reinstall the passenger seat and the main seat.