



2006-08 Yamaha FZ1

Installation Instructions



PARTS LIST

1	Juice Box Pro TM
1	USB Cable
1	Top Tune CD-ROM
1	Installation Guide
2	Velcro
1	Alcohol swab
1	O2 Optimizer

FOR RACE USE ONLY

DOWNLOAD THE TOPTUNE SOFTWARE
AND LATEST MAPS FROM OUR
WEBSITE:

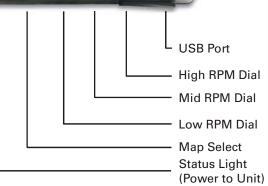
www.twobros.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

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







Zero map	
Stock exhaust	2006-2007 Yamaha FZ1
Stock air filter	
Stock O2 sensor disconnected	
Two Bros. V.A.L.E. slip-on exhaust	2006-2007
Stock or aftermarket air filter	Yamaha FZ1
Stock exhaust	2008 Yamaha FZ1
Stock air filter	
Two Bros. V.A.L.E. slip-on exhaust	2008 Yamaha FZ1
Stock or aftermarket air filter	
	Stock exhaust Stock air filter Stock O2 sensor disconnected Two Bros. V.A.L.E. slip-on exhaust Stock or aftermarket air filter Stock exhaust Stock air filter Two Bros. V.A.L.E. slip-on exhaust

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 Top Tune.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 Top Tune.
- Click Map Database. All maps will automatically be installed to the C:\Program Files\TBRTopTune\maps folder.

Loading Additional Maps

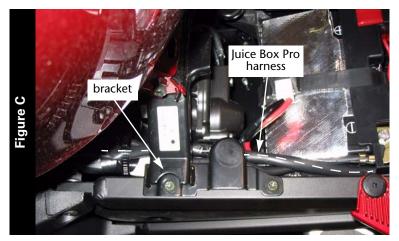
- 1 Connect the USB cable from the computer to the Juice Box Pro. Verify the cable is fully seated in the Juice Box Pro.
- 2 Run the Top Tune software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map.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





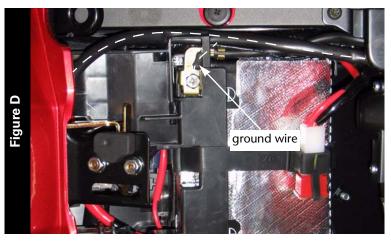




The ignition must be turned OFF before installation.

- 1 Remove the main seat and the passenger seat.
- 2 Prop the front of the fuel tank up.
- 3 Temporarily lay the Juice Box Pro in the tail section.
- 4 Route the Juice Box Pro harness under the tail section and go towards the front of the bike.
- 5 Locate the grey connector from the main wiring harness to the injector rail and unplug this connector as shown in Figure A.
- 6 Attach the connectors from the Juice Box Pro to the stock wiring harness as shown in Figure B.

- 7 Remove the bolt on the left hand side of the fuel tank bracket.
- 8 Loosen the bolt on the right hand side of the fuel tank bracket enough to route the Juice Box Pro harness underneath it as shown in Figure C.
- 9 Re-tighten the bracket.



10 Attach the ground wire from the Juice Box Pro to the negative side of the battery as shown in Figure D.



11 Using the supplied velcro, Install the Juice Box Pro in the rear section of the trunk as shown in Figure E.

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

- 12 Verify the wires are routed properly.
- 13 Locate the stock O2 sensor in the exhaust. Follow the O2 sensor harness and unplug it from the main wiring harness.
- 14 Attach the O2 optimizer into the main wiring harness.
 The stock O2 sensor will not be connected to anything anymore.
- 15 Lower the fuel tank and verify the connectors and harness do not interfere with or get pinched by the fuel tank.
- 16 Reinstall the main seat and the passenger seat.