JUICEBOX PRO®
Premium Fuel Controller

2006-2010 Suzuki GSXR600

Installation Instructions

PARTS LIST

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

THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!

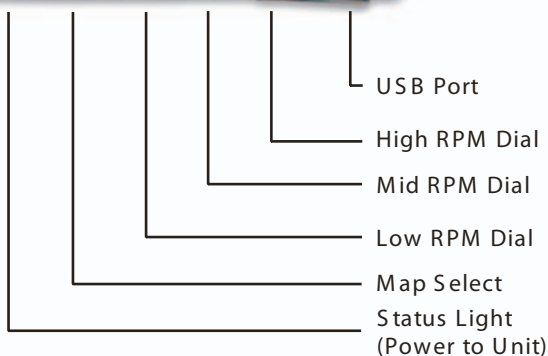DOWNLOAD THE TOPTUNE SOFTWARE AND LATEST MAPS FROM OUR WEBSITE:
www.twobros.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

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STATUS
Race use only

USB Port

High RPM Dial

Mid RPM Dial

Low RPM Dial

Map Select

Status Light
(Power to Unit)

Position 0	Zero map	
Position 1	Stock exhaust Stock air filter	2006-2007 Suzuki GSXR600
Position 2	Two Brothers VALE slip-on exhaust Stock or aftermarket air filter	2006-2007 Suzuki GSXR600
Position 3	Two Brothers full exhaust Stock or aftermarket air filter	2006-2007 Suzuki GSXR600
Position 4	Stock exhaust, Stock air filter	2008-2010 Suzuki GSXR600
Position 5	Two Brothers Vale slip-on Stock or aftermarket air filter	2008-2010 Suzuki GSXR600
Position 6	Two Brothers full exhaust Stock of aftermarket air filter	2008-2010 Suzuki GSXR600

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.
3 Click Map Database. All maps will automatically be installed to the C:\Program Files\TBR Top Tune\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.

Figure A

ground wire

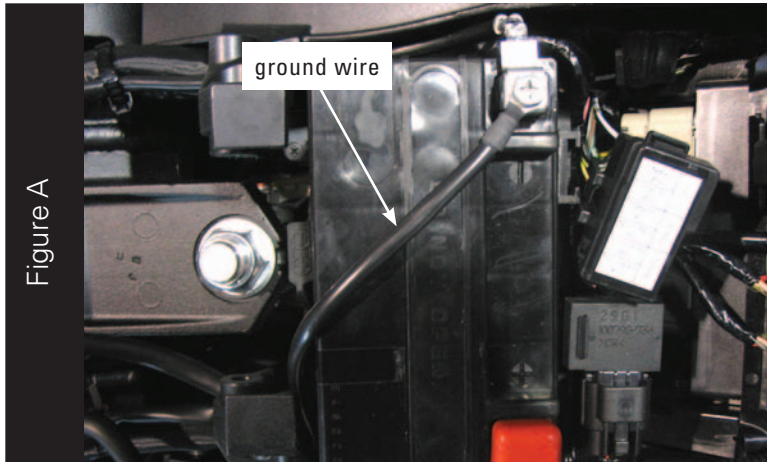Figure B

unplug

unplug

Figure C

1. Remove the main seat and the passenger seat or solo cover.

2. Prop the fuel tank up using the prop rod in the tail section.

3. Lay the Juice Box Pro in the tail section.

4. Route the wiring harness from the Juice Box Pro under the tail section and go towards the engine down the left hand side of the bike.

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

6. Unplug the stock wiring harness from each of the lower injectors as shown in Figure B.

   The lower injectors are much harder to access than the upper injectors. Using a set of needle nose pliers will aid in removing the connectors.

   Note: The #4 cylinder connector is not visible in this picture.

7. Attach the Juice Box Pro connectors to the stock lower injectors and stock wiring harness as shown in Figure C.
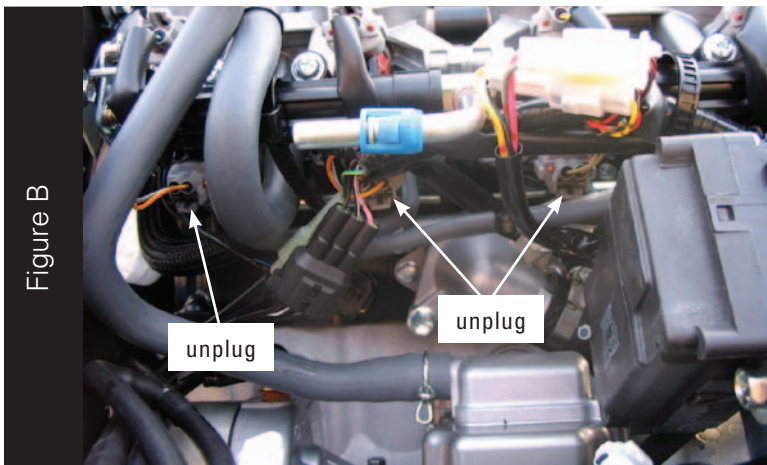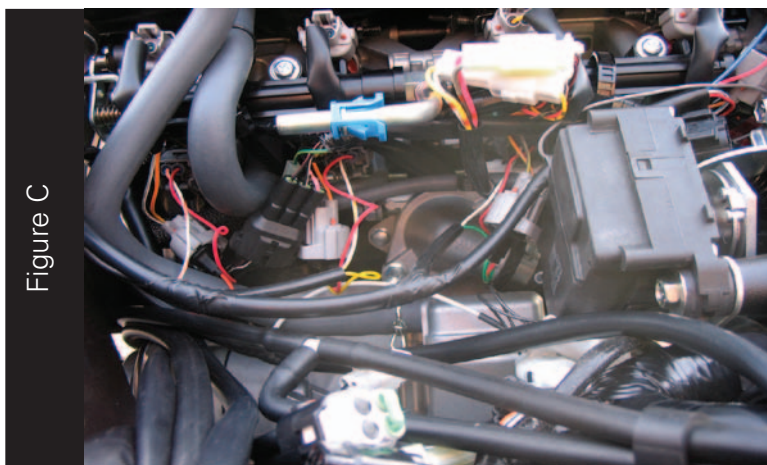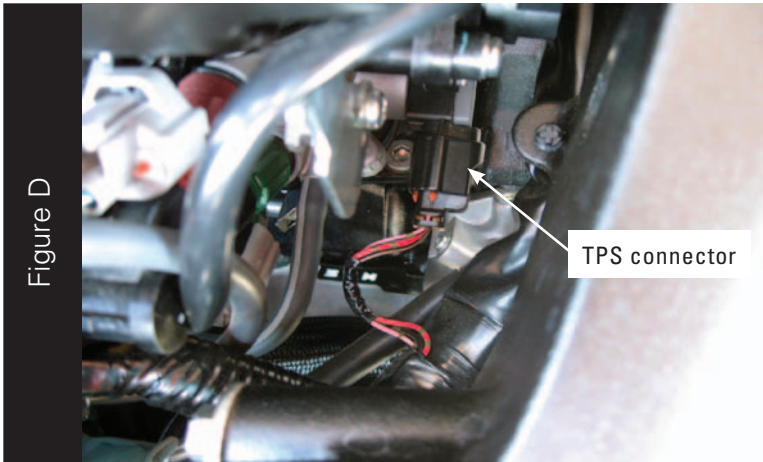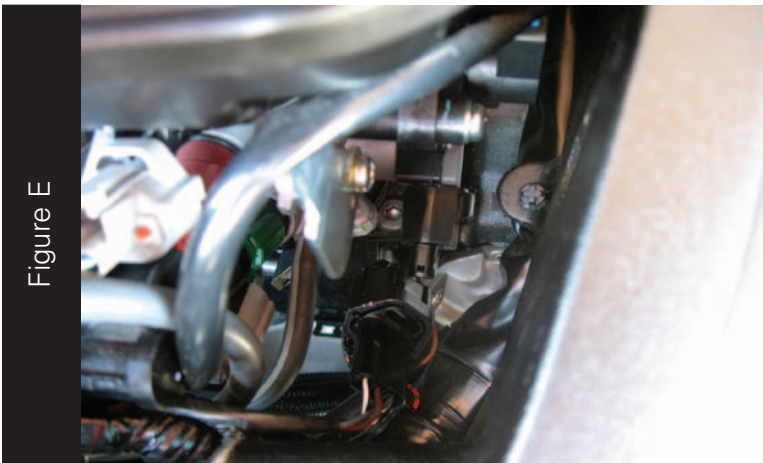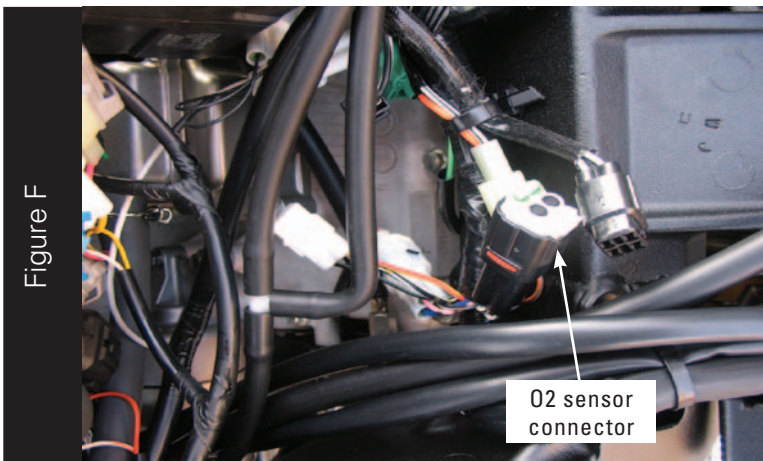
Figure D

TPS connector

8. Locate the throttle position sensor (TPS) connector on the far right hand side of the throttle bodies as shown in Figure D.

   The TPS connector has pink/black - red - black/brown colored wires.

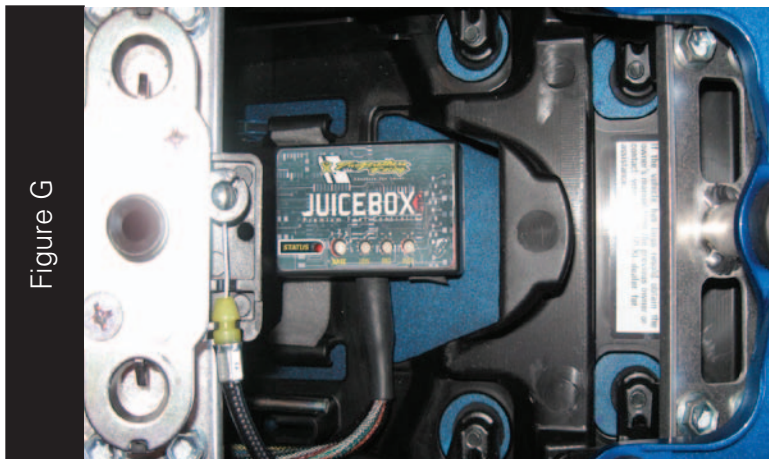9. Unplug the TPS connector.

Figure E

10. Attach the 3-pin connectors from the Juice Box Pro to the stock TPS and wiring harness as shown in Figure E.

Figure F

O2 sensor connector

11. Locate where the stock O2 sensor connects to the main wiring harness.

    The O2 connector is a black 4-pin connector located under the fuel tank as shown in Figure F.

12. Unplug this connector.

13. Attach the O2 optimizer into the main wiring harness.

    Note: The stock O2 sensor will not be connected to anything at this time.

    Note: Skip steps 11-13 for the 2006-2007 models as they do NOT have an O2 sensor.

Figure G

14. Using the supplied velcro, secure the Juice Box Pro in the tail section. The Juice Box Pro can be installed as shown in Figure G or to the inner fender.

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

15. Lower the fuel tank back into position. Verify none of the wires get pinched or damaged.