



## 2009-2010 Honda SH150i

### Installation Instructions



**JUICEBOX** PRO<sup>®</sup>  
Premium Fuel Controller

### PARTS LIST

- 1 Juice Box Pro™
- 1 USB Cable
- 1 TopTune CD-ROM
- 1 Installation Guide
- 2 Velcro strip
- 1 Alcohol swab

**THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!**

DOWNLOAD THE TOPTUNE SOFTWARE AND LATEST MAPS FROM OUR WEBSITE:

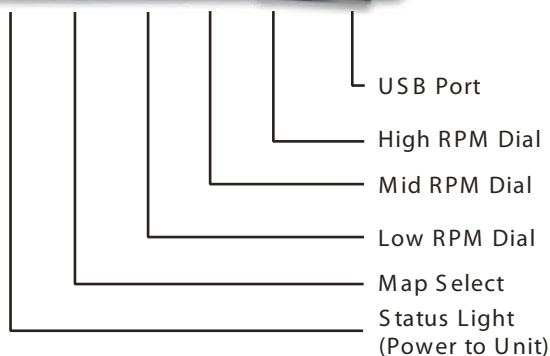
[www.twobros.com](http://www.twobros.com)

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

401 S. Grand Ave. Santa Ana, CA 92705  
(800) 211-2767 [www.twobros.com](http://www.twobros.com)

# JUICEBOX PRO<sup>®</sup>

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## 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 TopTune

Take your tuning to the next level with the TopTune software.

## Installing the TopTune 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 TopTune 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.

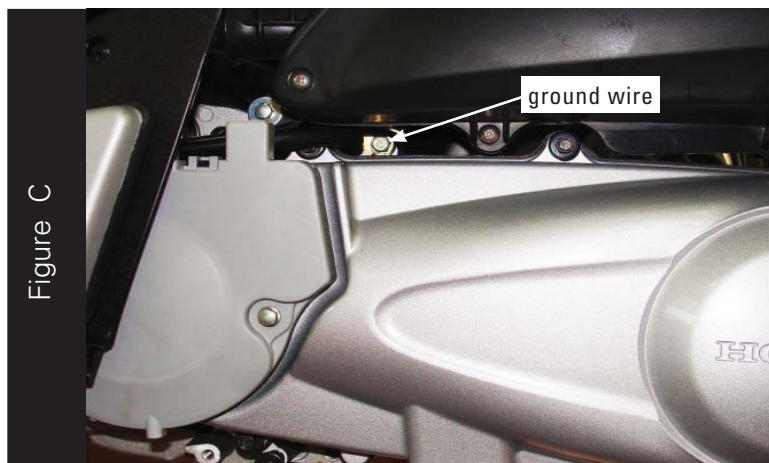
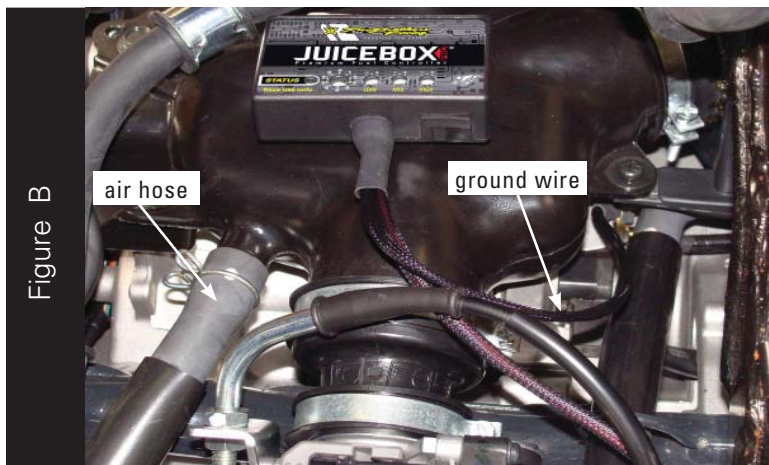
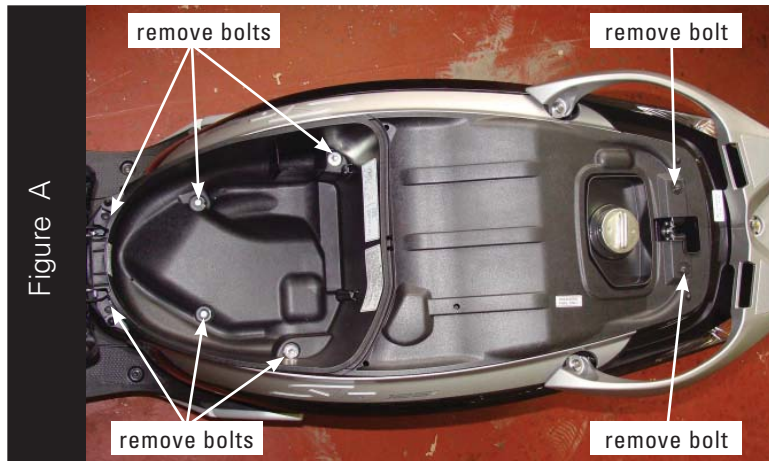
## Loading Additional Maps

- 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 TopTune

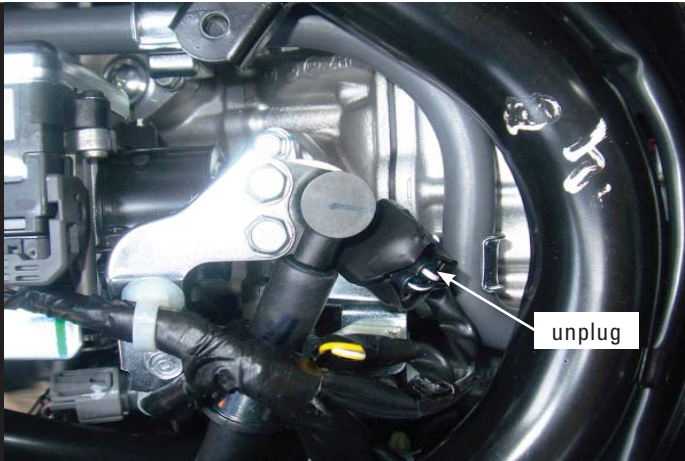
The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve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

Position 0	Zero map	
Position 1	All Stock	2009-2010 Honda SH150i
Position 2	Stock Intake Two Brothers Racing Full Exhaust	2009-2010 Honda SH150i



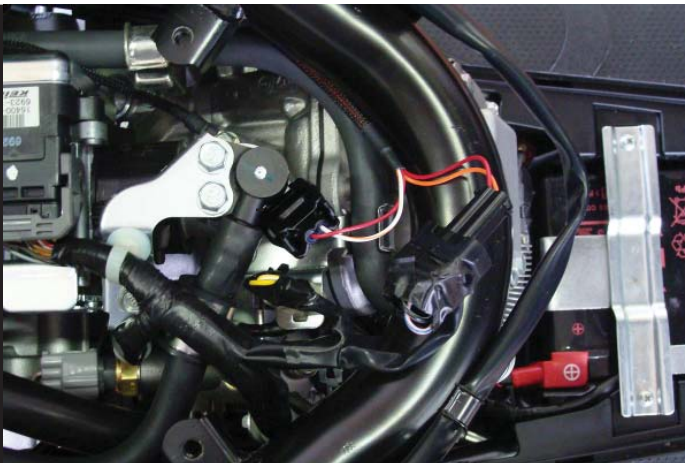
1. Lift up the seat.
2. Remove the eight bolts as shown in Figure A.
3. Remove the plastic trunk to access the engine.
4. Using the supplied velcro, install the Juice Box Pro on top of the air box as shown in Figure B.  
**Note:** Make sure to clean both surfaces with the alcohol swab before attaching.
5. Attach the ground wire from the Juice Box Pro to the stock ground location as shown in Figure C.  
 Remove the bolt from the left side of the engine and reinstall the bolt with the Juice Box Pro ground lug attached.

Figure D



6. Unplug the stock wiring harness from the fuel injector as shown in Figure D.

Figure E



7. Attach the connectors from the Juice Box Pro harness to the stock wiring harness and fuel injector as shown in Figure E.

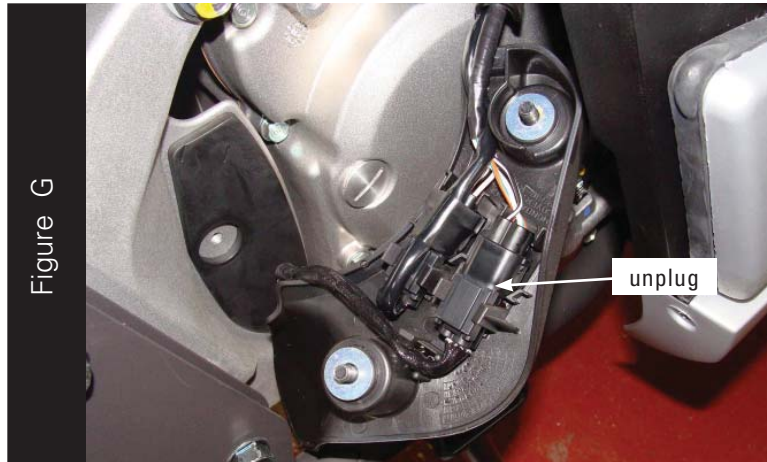
Figure F



8. Locate the black plastic cover on the right side of the engine.

9. Remove the two bolts securing this cover in place as shown in Figure F.

10. Unplug the black 4-pin connector from the O2 sensor as shown in Figure G.



11. Attach the connectors from the Juice Box Pro to the stock O2 sensor and wiring harness as shown in Figure H.



12. Place one set of connectors in the stock location and the other set just above the plastic cover as shown in Figure I.

13. To obtain the correct air/fuel ratio in the closed loop area it is required to block the clean air injection hose. This hose is pointed out in Figure B.

14. Reinstall the plastic trunk and seat.

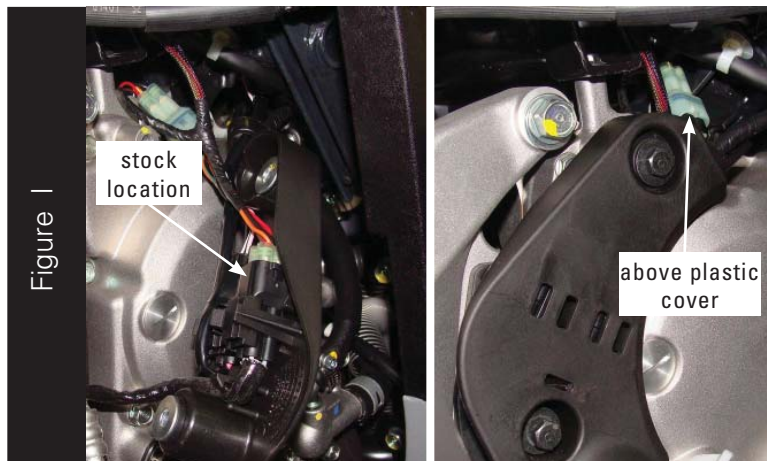


Figure J

MAP 1 - CYLINDER 1,2,3,4  
THROTTLE (%)

ENGINE RPM	0	2	5	10	15	20	40	60	80	100
500	0	0	0	0	0	0	0	4	6	7
1000	0	0	0	0	0	0	0	4	6	7
1500	0	0	0	0	0	0	0	4	6	7
2000	0	0	0	0	0	0	0	4	6	7
2500	0	0	0	0	0	0	0	4	6	7
3000	0	0	0	0	0	0	0	4	6	7
3500	0	0	0	0	0	0	0	4	6	7
4000	0	0	0	0	0	0	0	5	7	7
4500	0	0	0	0	0	0	0	5	7	7
5000	0	0	0	0	0	0	0	5	7	7
5500	0	0	0	0	0	0	0	5	7	7
6000	0	0	0	0	0	0	0	5	7	7
6500	0	0	0	0	0	0	0	5	7	7
7000	0	0	0	0	0	0	0	5	7	7
7500	0	0	0	0	0	0	0	5	6	8
8000	0	0	0	0	0	0	0	5	6	8
8500	0	0	0	0	0	0	0	5	6	8
9000	0	0	0	0	0	0	0	5	6	8
9500	0	0	0	0	0	0	0	5	6	8
10000	0	0	0	0	0	0	0	5	6	8
10500	0	0	0	0	0	0	0	5	6	8
11000	0	0	0	0	0	0	0	5	6	8

The Juice Box Pro for this model controls the stock closed loop area. This area is represented by the highlighted cells shown in Figure J. The Juice Box Pro is designed to achieve a target AFR of 13.6:1. To use this Juice Box Pro you must retain your stock O2 sensor.

It is not recommended to alter the values in the highlighted area unless instructed to do so by a Juice Box Pro technician.