

ABOUT >

ADVANCED MADE EASY

A good tool makes work easier

The latest version of the Bazzaz Z-Mapper software is powerful in its simplicity. An intuitive, fun interface gets new users tuning quickly and easily.

New features include:

- Multiple language support
- Automatic updates
- Improved display
- Operating point crosshairs
- Aligned throttle, RPM, and AFR indicators
- Color-coded fuel adjustment cells
- Default traction control maps
- Resizable design to fit any screen



FREE DOWNLOAD >

GO TO BAZZAZ.NET

Click the download button on the Software page
Follow the prompts for easy installation



Engine Management | Principia Dynamometer | Educate | Software | Connect | Dealers



Advanced made easy.

Introducing the most intuitive tuning platform ever.

The goal: make high levels of race technology available and easy to use for all. With the release of version 1.0.200 we've come just that.

Z-Fi Fuel | Self Mapping | Z-Fi OS Quick Shift | Z-Fi TC Traction Control

Software

Software Overview

Principia Software

Engine Management

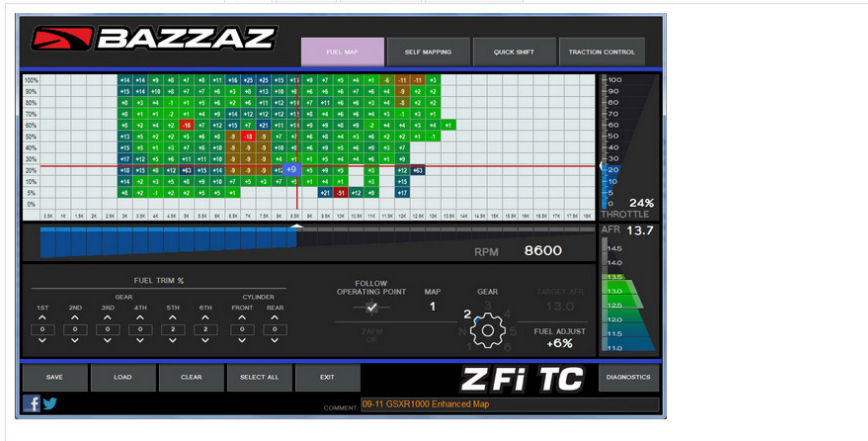
Fuel Control

Quick Shift

Traction Control

BMS Accessories

Z-Born



Software Downloads

Take it for a test ride. Simply download the software and select 'work offline'. You can even load a fuel map for your bike to get a feel for how it works.

Note: The new version software is scheduled for release on 11 April, 2013

Download the previous version here:

[Software Download](#)

[Software Demo](#)

New Software Features

- Color-coded fuel map cells to indicate lean/rich fuel areas
- Easily readable input and function
- Operating point crosshairs and map-aligned throttle/RPM gauges
- Full support for over 15 languages including non-Latin script
- Automatic update prompt
- Default traction control maps with color-coded sensitivity map
- A responsive, attractive layout with eye-friendly color scheme and layout

Support Downloads

Use this link only if guided by tech support.

[Get Help](#)

CONNECT

Plug in your Bazzaz control unit with the USB cord and open software application

Vehicle does not need to be turned on

Software will connect automatically

If not connected to a control box, you can select to run software in offline mode for viewing and editing

U.S. SUPPORT: (909) 597-8300

INTERNATIONAL SUPPORT: find local dealers at bazzaz.net

NAVIGATION >

PAGE TABS

Switch between page displays

Only tabs applicable to your product will be visible

The screenshot displays the BAZZAZ ZFi TC interface. At the top, the BAZZAZ logo is on the left, and four page tabs are on the right: FUEL MAP (highlighted in purple), SLOW MAPPING, QUICK SHIFT, and TRACTION CONTROL. A blue arrow points to the SLOW MAPPING tab. Below the tabs is a large fuel map grid with throttle percentage on the y-axis (0% to 100%) and RPM on the x-axis (0.5K to 18K). The grid contains numerical values representing fuel trim percentages, with colors ranging from green (positive trim) to red (negative trim). A red vertical line is positioned at approximately 8.5K RPM, and a red horizontal line is at 24% throttle. Below the grid is a blue bar chart representing the fuel trim distribution. To the right of the grid, a vertical scale shows AFR values from 11.0 to 14.5, with a current reading of 13.7. Below the grid, there are several control sections: FUEL TRIM % with up/down arrows for GEAR (1ST-6TH) and CYLINDER (FRONT, REAR); FOLLOW OPERATING POINT with a checkmark; MAP 1; GEAR 2 with a gear icon; TARGET AFR 13.0; and FUEL ADJUST +6%. At the bottom, there are buttons for SAVE, LOAD, CLEAR, SELECT ALL, and EXIT, along with the ZFi TC logo and a DIAGNOSTICS button. A blue arrow points to the DIAGNOSTICS button. A comment field at the bottom right contains the text "09-11 GSXR1000 Enhanced Map".

DIAGNOSTICS

Opens new page for troubleshooting or recalibration of gear and throttle position

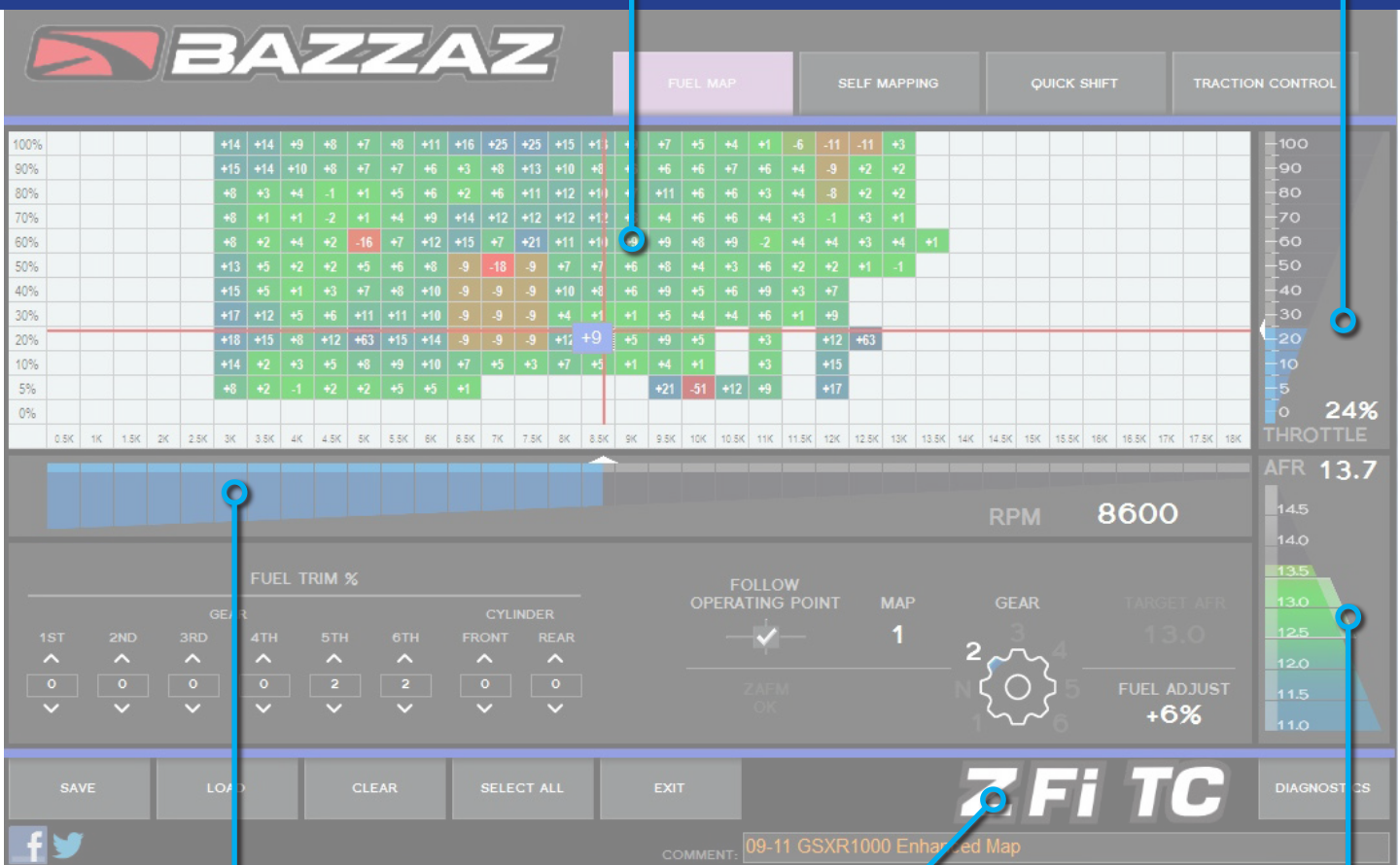
GENERAL DISPLAY >

MAP DISPLAY

Displays present map (fuel or traction control)

THROTTLE POSITION

Displays real-time throttle position
For use on the dyno or when testing/
calibrating throttle position sensor (TPS)



RPM POSITION

Displays real-time RPM
For use on the dyno or when testing/
calibrating throttle position sensor (TPS)

PRODUCT ID

Identifies product programmed

AIR:FUEL INDICATOR

Displays real-time air:fuel ratio (AFR) when
used with Z-AFM
For use on the dyno

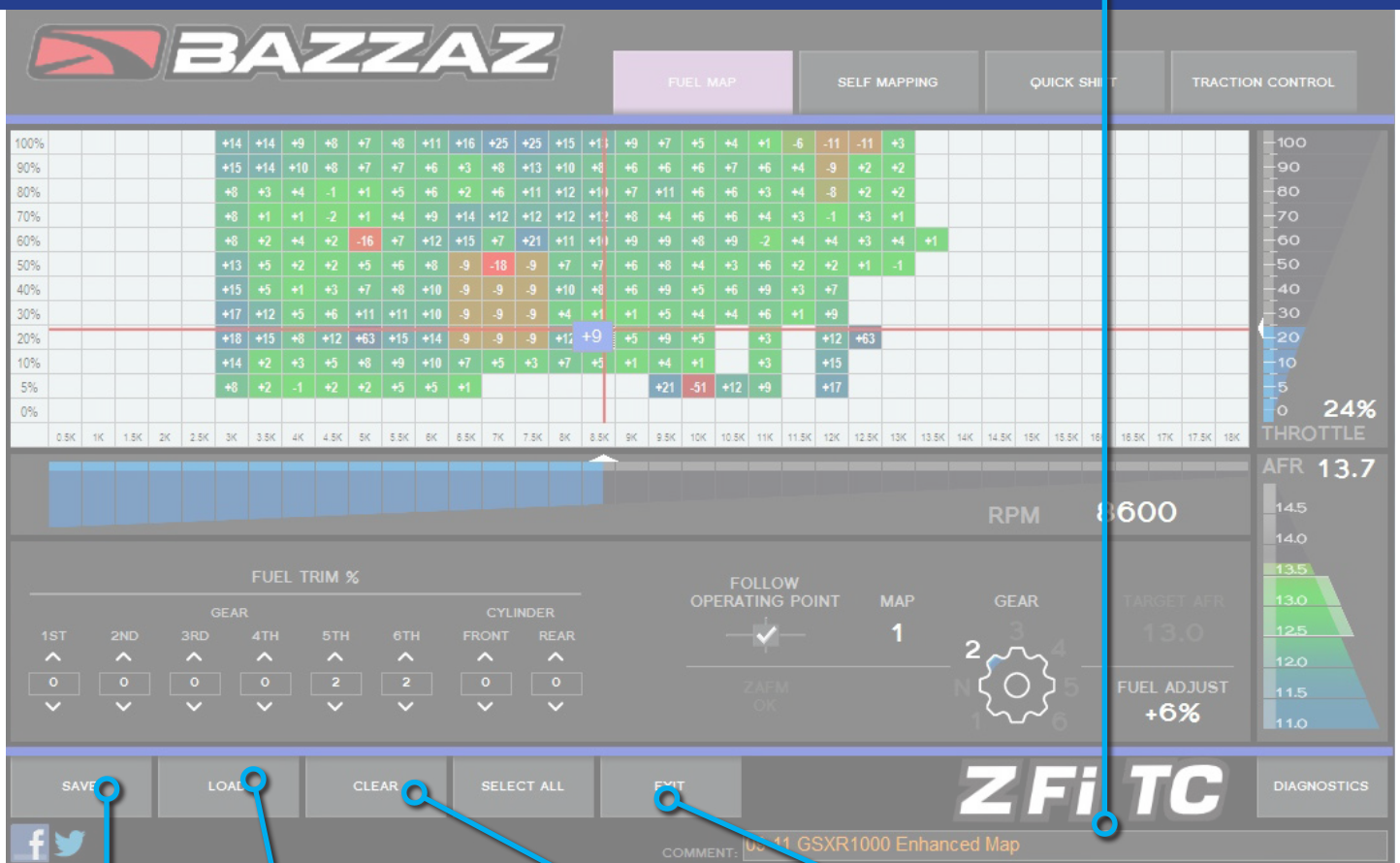
U.S. SUPPORT: (909) 597-8300

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FILE MANAGEMENT >

COMMENTS

Make notations to identify maps such as location, fuel type, or atmospheric information (28 characters max)



SAVE

Save presently displayed map

LOAD

Load a map from hard drive

CLEAR

Clears out displayed map (including trims)

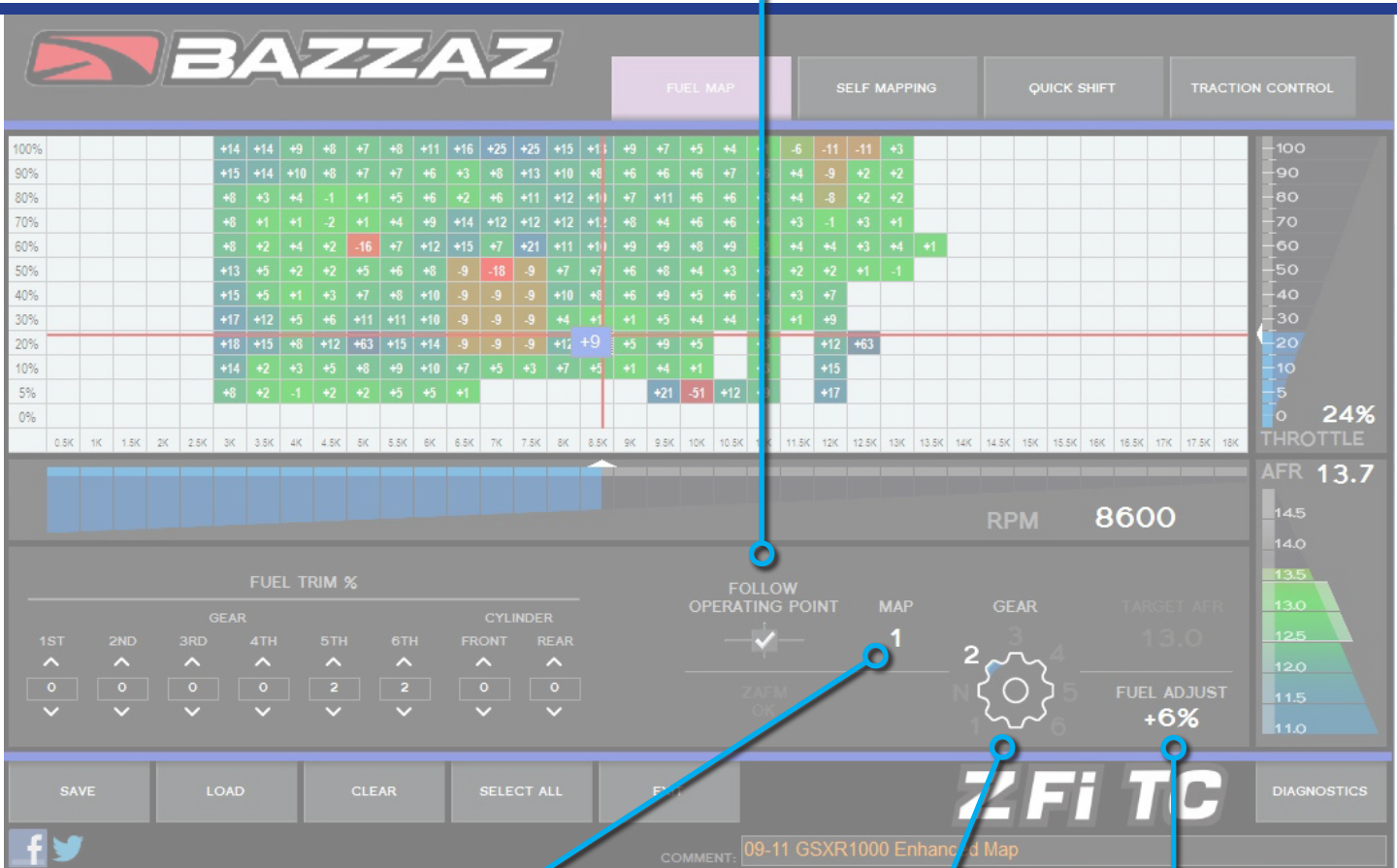
EXIT

Exits the Z-Mapper program

OPERATING POINT DISPLAYS >

FOLLOW OPERATING POINT

Allows real time tracking of throttle/RPM operating point



MAP

Identifies which map is being run and edited (map 1 or 2)

GEAR POSITION

Identifies present gear

FUEL ADJUST

Identifies total adjustments at the present operating point. Does not include cylinder trim.

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SYSTEMS CHECK >

1. MAP CHECK

Check that the name of the pre-programmed map matches the model of your bike in the COMMENT section

Note: You can switch from map 1 to map 2 by unplugging the map select jumper on the Bazzaz fuel harness. Map 1 is pre-programmed; depending on your model, there may be a pre-programmed map in the map 2 slot. If map 2 is blank, stock ECU settings are used. Make sure that the jumper is left plugged in or unplugged, depending on which map you choose.

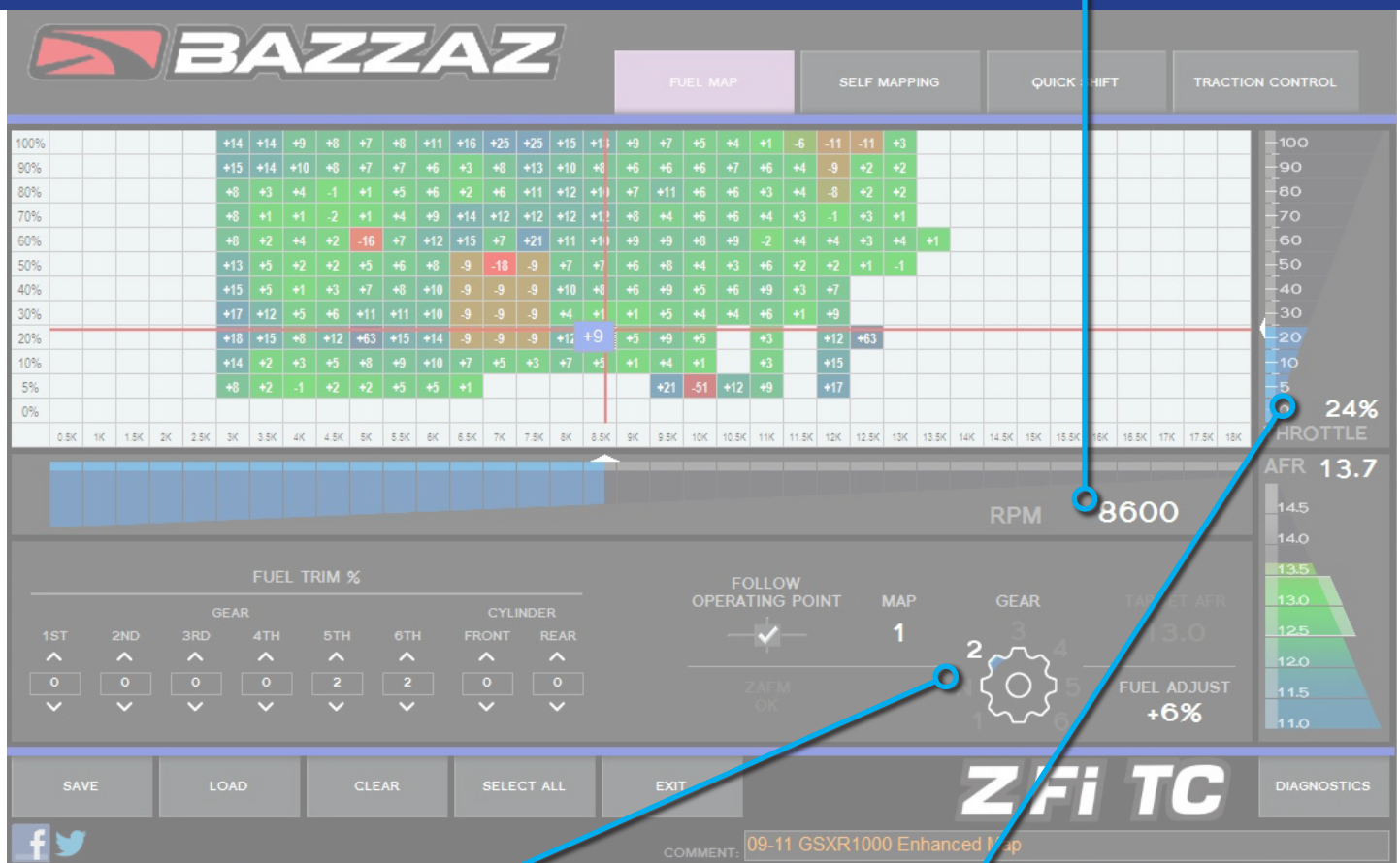
2. START

Start the vehicle

Begin to check that the following inputs read correctly on the fuel map page

3. RPM

Make sure that the RPM is reading near what the vehicle is idling at.



4. GPS

The vehicle should read neutral (or whichever gear it is in)

For motorcycles that use a Gear Position Sensor, the bike does not need to be running to do this. For motorcycles that use a speed sensor, the wheel must be spinning to read gear properly. This can be checked on a dynamometer or by using a rear stand. Use extreme caution when testing componentry.

5. TPS

When throttle is applied, the TPS should read accordingly

For motorcycles that use a Gear Position Sensor, the bike does not need to be running. For motorcycles that use a speed sensor, the wheel must be spinning to read gear properly. This can be checked on a dynamometer or by using a rear stand. Use extreme caution when testing componentry.

Z-AFM AIR FUEL MAPPER

02 Sensor - Light should cycle from WARM UP to OK

AFR - Check that the AFR gauge is active and fluctuating as you increase/decrease throttle

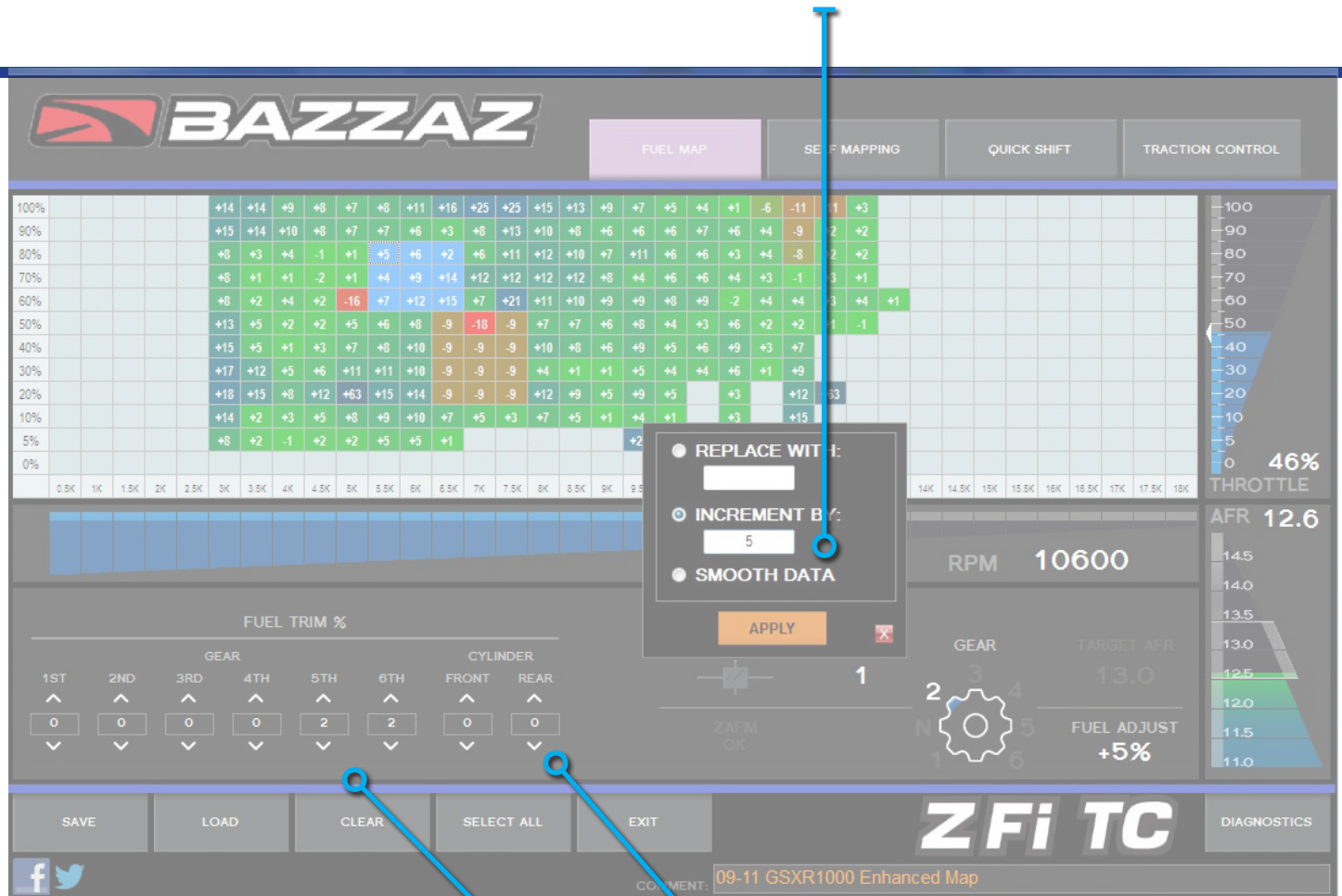
MAP MODIFICATIONS >

POP UP DIALOGUE

Appears when any cell or group of cells is highlighted

For Fuel Map and Traction Control map

- REPLACE WITH - replace the highlighted cell(s) with a new value
- INCREMENT BY - add or subtract to the values in the highlighted cell(s)
- SMOOTH DATA - using the value of adjacent cells, will replace any potentially erroneous values, allowing for smoother fuel delivery when transitioning from cell to cell



FUEL TRIM >

Only visible when applicable for your model
Changes will not be visible directly in the map display

BY CYLINDER

Cylinder-specific settings that add or subtract fuel (%) to the entire fuel map

Click arrow up or down for each cylinder you wish to modify

BY GEAR

Gear-specific settings that add or subtract fuel (%) to the entire fuel map

Click arrow up or down for each gear you wish to modify

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SELF FUEL MAPPING >

ZAFM

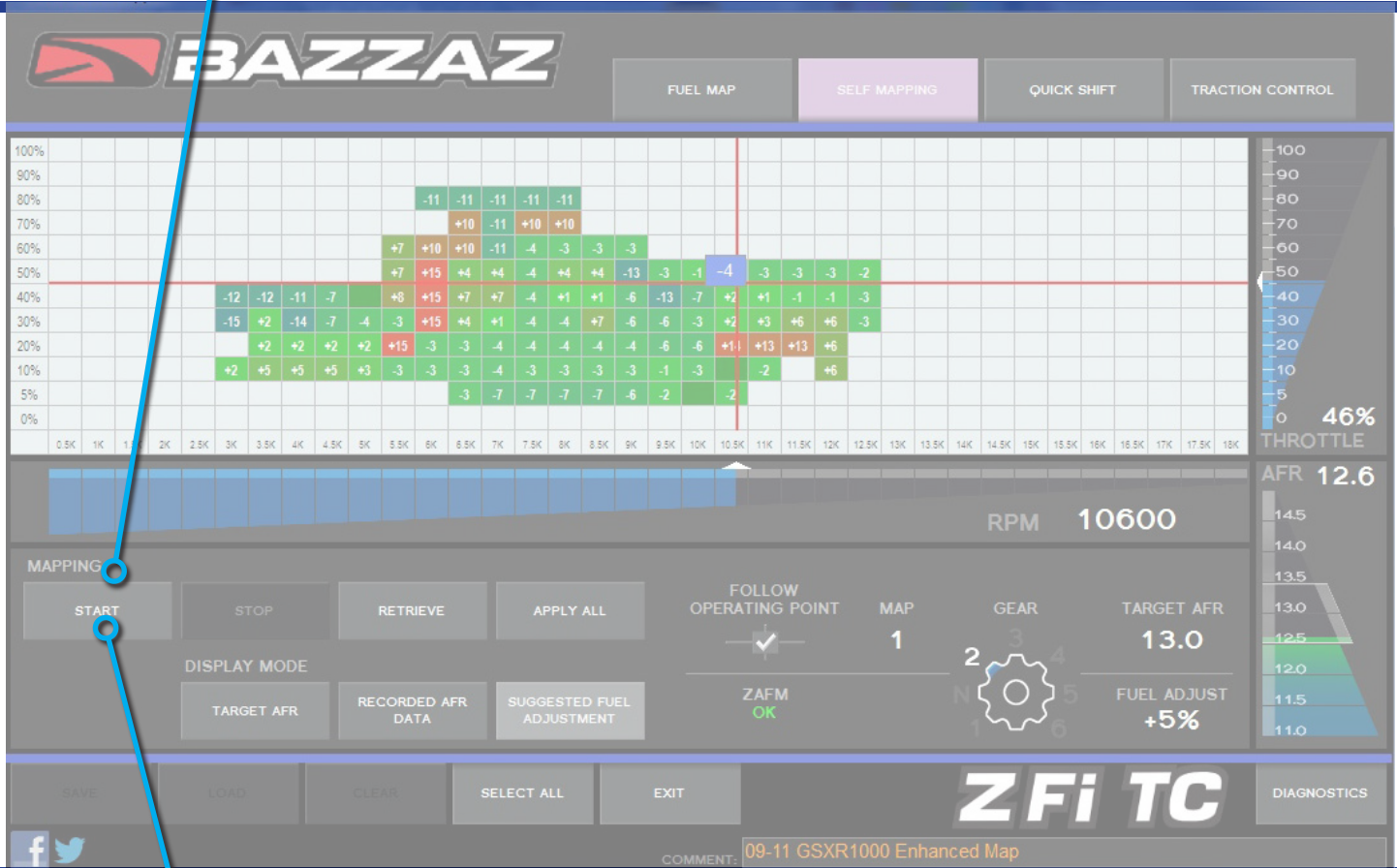
MAPPING IN 4 EASY STEPS (ON DYNO)

Follow buttons from left to right to build a complete map at track or on dyno

Plug USB lead from control unit into computer

- START - Activates data collection (suggested changes to the active fuel map)
- STOP - Ends data collection process
- RETRIEVE - Shows collected data / suggested changes to fuel map
- APPLY ALL- Applies newly collected data onto the active fuel map

NOTE: Data will automatically clear when new run is started



MAPPING IN 5 EASY STEPS (ON TRACK)

Follow buttons from left to right to build a complete map at track or on dyno

Plug USB lead from control unit into computer

- START - Activates data collection to create suggested changes to the active fuel map
- EXIT - Close software

Unplug USB and begin on-track session.

The Z-AFM will remain in data collection mode until STOP is clicked in the software.

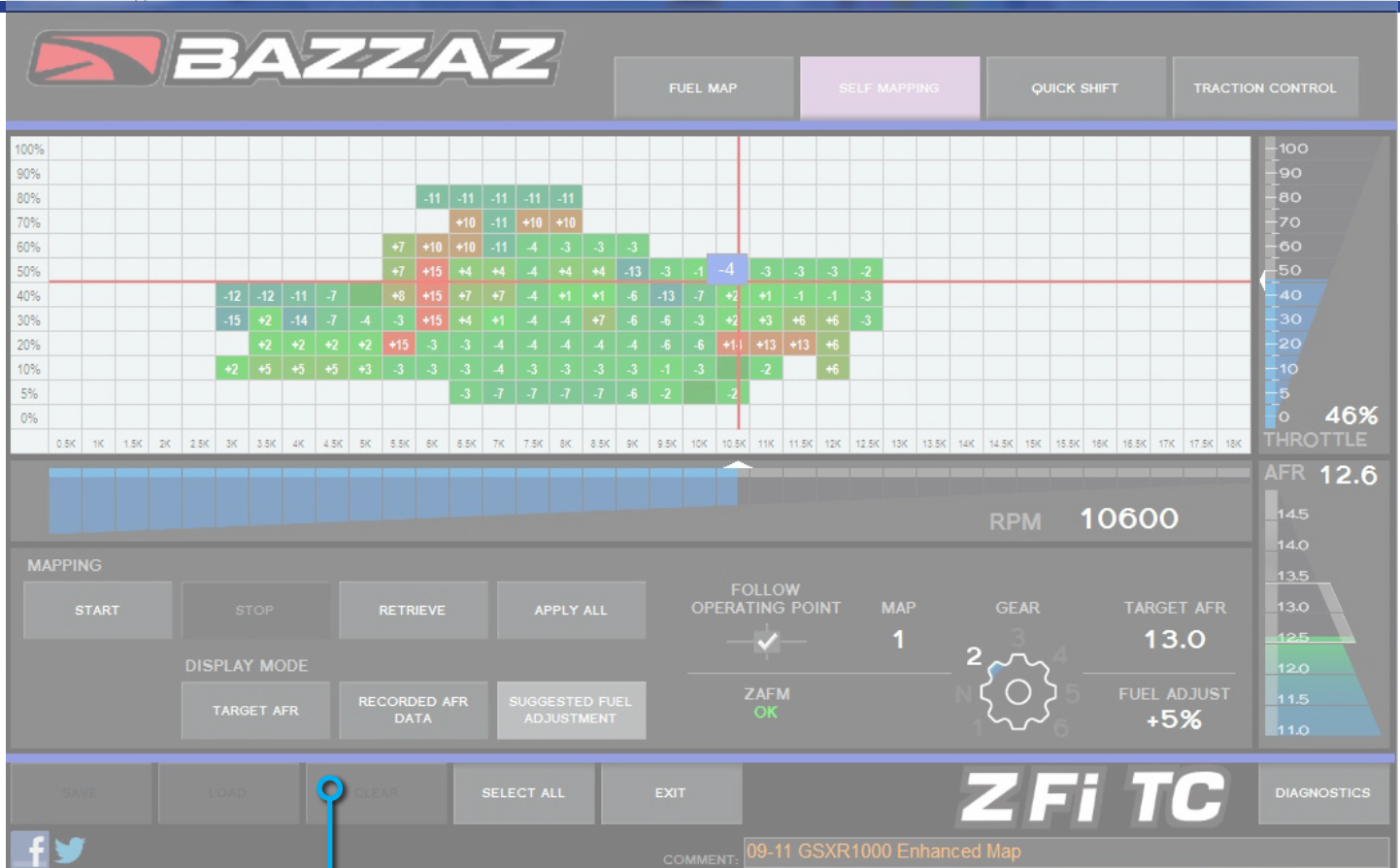
Bike can be powered on and off during this process without affecting map results

When complete with the data collection process, plug USB lead from control unit into computer and re-open software.

- STOP - Ends data collection process
- RETRIEVE - Shows collected data / suggested changes to fuel map
- APPLY ALL- Applies newly collected data onto the active fuel map

NOTE: Previously recorded data will be automatically cleared when new run is started

SELF FUEL MAPPING CONT>



MAPPING DISPLAY

Alternates data displayed in mapping area

- RECORDED AFR DATA
- SUGGESTED FUEL ADJUSTMENT - Fuel adjustment required to reach target AFR
- TARGET AFR - Values can be changed by selecting a single cell or range of cell

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QUICK SHIFT >

CUT TIME ADJUSTMENT

The ignition cut time is the amount of time in milliseconds that the ignition is cut off to allow the shift. Cut times are longer in lower gears and are set at the factory to recommended starting values. Adjustments can easily be made if shifting is not perfectly seamless. Use the sliders to lengthen or shorten cut times; it is suggested you test changes in 5ms increments.

The screenshot displays the BAZZAZ ZFi TC Quick Shift menu. At the top, the BAZZAZ logo is on the left, and navigation tabs for FUEL MAP, SELF MAPPING, QUICK SHIFT (highlighted), and TRACTION CONTROL are on the right. The main section is titled 'CUT TIME BY GEAR' and features five vertical sliders for gear transitions: 1 TO 2 (75 ms), 2 TO 3 (65 ms), 3 TO 4 (50 ms), 4 TO 5 (45 ms), and 5 TO 6 (35 ms). A blue arrow points to the 1 TO 2 slider. To the right of the sliders is a vertical scale from 0 to 100, with a blue bar indicating 46% THROTTLE. Below the sliders is a bar graph showing a decreasing trend. The bottom section displays engine data: RPM 10600, MAP 1, GEAR 2 (indicated by a gear icon), TARGET AFR 13.0, and FUEL ADJUST +5%. At the bottom, there are buttons for SAVE, LOAD, CLEAR, SELECT ALL, and EXIT, along with the ZFi TC logo and a comment field containing '09-11 GSXR1000 Enhanced Map'.

QUICK SHIFT (QS4 USB) >



QS4 USB SHIFT LIGHT OPTIONS

For use with the QS4 USB Shift Light accessory only.
Set shift light RPM for each gear

QS4 USB SHIFT LIGHT

Sold separately
Illuminates white to identify pre-determined, optimal shift points.



U.S. SUPPORT: (909) 597-8300

INTERNATIONAL SUPPORT: find local dealers at bazzaz.net

TRACTION CONTROL >

TC ADJUSTMENT OPTIONS

Every user will adjust traction control (TC) to accommodate their own riding style by trial and error using SENSITIVITY, CUT LEVELS or both

SENSITIVITY ADJUSTMENT

Sensitivity is how much wheel spin is required to activate traction control intervention

Higher numbers indicate more sensitivity. Ten is maximum; zero indicates no traction control

Use cells to adjust sensitivity by throttle/RPM position with values from 0-10

Select individual cells or click/drag to select a range of cells (dialogue box will appear) and edit value

The screenshot displays the BAZZAZ ZFi TC software interface. At the top, there are tabs for FUEL MAP, SELF MAPPING, QUICK SHIFT, and TRACTION CONTROL. The TRACTION CONTROL tab is active, showing a grid for TC SENSITIVITY. The grid has throttle positions on the y-axis (0% to 100%) and RPM on the x-axis (0.5K to 18K). A blue circle highlights a cell at approximately 10% throttle and 10.5K RPM. To the right of the grid is a vertical slider for CUT LEVEL, with a blue circle highlighting the value 5. Below the grid is a bar graph showing the throttle position. The interface also includes a TC MODE section with options for DEFAULT and EXPERT, and a TC TRIM BY GEAR section with up/down arrows for gears 1 through 6. Other settings include FOLLOW OPERATING POINT, MAP 1, GEAR 2, and TARGET AFR 13.0. At the bottom, there are buttons for SAVE, LOAD, CLEAR, SELECT ALL, EXIT, and a ZFi TC logo. A comment at the bottom reads "09-11 GSXR1000 Enhanced Map".

CUT LEVEL TC ADJUSTMENT

Cut Level designates how much ignition cut takes place during traction control intervention

Higher numbers indicate more power reduction. Use cells to adjust cut level by throttle position with values from 0-10

Select individual cells or click/drag to select a range of cells (dialogue box will appear) and edit value



TC ADJUST SWITCH *Sold separately*

Make adjustments while riding with this handlebar-mounted switch and dial

- Tune traction control faster
- Switch between two sets of fuel/TC maps
- Dial traction control sensitivity up, down, or off



DEFAULT TC MAPS

Every rider will have different preferences; these maps will be a good starting point

Begin with the map that most closely describes your skill level

Make note of the settings and make any changes you feel are suitable

Continue to fine tune the settings after testing on track

A handlebar-mounted TC Adjust Switch and dash-mounted TC Active Light will make the tuning faster and easier

TRIM BY GEAR

Gear-specific settings that add or subtract sensitivity to the entire TC map

Click arrow up or down for each gear you wish to modify

Can also be used to turn TC off in specified gears

Changes will not be visible directly in the map display

The screenshot displays the BAZZAZ ZFi TC interface. At the top, the BAZZAZ logo is visible. Below it, there are tabs for FUEL MAP, SELF MAPPING, QUICK SHIFT, and TRACTION CONTROL. The main area is a grid showing sensitivity levels (0% to 100%) across various RPM ranges (1K to 18K). The grid is currently set to 5 for all values. Below the grid, there are controls for TC MODE (DEFAULT, EXPERT), TC ADJUST (1), and TC TRIM BY GEAR (ST, 2ND, 3RD, 4TH, 5TH, 6TH). The TRIM BY GEAR section shows arrows and buttons for adjusting sensitivity for each gear. The interface also displays RPM (10700), MAP (1), GEAR (2), and TARGET AFR (13.0). At the bottom, there are buttons for SAVE, LOAD, CLEAR, SELECT ALL, EXIT, and a ZFi TC logo. A comment box at the bottom right says "09-11 GSXR1000 Enhanced Map".

FINAL CALCULATIONS

Overall sensitivity is a sum of map + gear trim + handlebar trim (w/TC adjust switch)

Settings max out at 10

Example: map is 5, trim by gear is 5, handlebar switch is 5 and, the overall sensitivity will be 10 (not $5+5+5=15$)

Note: Zero in the sensitivity map implies TC is off at that point, regardless of trim by gear and TC switch.

Example: map is 0, trim by gear is 5, handlebar switch is 5 and, the overall sensitivity will be OFF (not $0+5+5=10$)

U.S. SUPPORT: (909) 597-8300

INTERNATIONAL SUPPORT: find local dealers at bazzaz.net

DIAGNOSTICS >

SIGNAL SOURCE CHECK

Check signal for Throttle Position Sensor (TPS), RPM, and Bazzaz Z-AFM

Will read 'OK' if signal reads properly

TPS: Will indicate an error with installation, faulty or out of range sensor, or faulty control unit

RPM: Will indicate an error with Crank Position Sensor (CKPS) installation, faulty or out of range sensor, or faulty control unit

Z-AFM: Will indicate if not connected or if sensor/control unit is faulty

DIAGNOSTICS

TPS	OK
RPM	OK
ZAFM	OK

CALIBRATION

THROTTLE POSITION

READ CLOSED	READ OPEN	VDC
0.23	4.99	

SAVE CALIBRATION

GEAR POSITION

LEARN 1st	LEARN 2nd	LEARN 3rd	LEARN 4th	LEARN 5th	LEARN 6th
92	115	154	187	222	239

Year:0712 Make:SUZUKI Model:GSXR1000
S/N: 122700012
SOFTWARE:1.0.200.0 FIRMWARE:V1.17

IDENTIFICATION

Used to verify correct model/year application

Identifies firmware and software version for troubleshooting

THROTTLE CALIBRATION

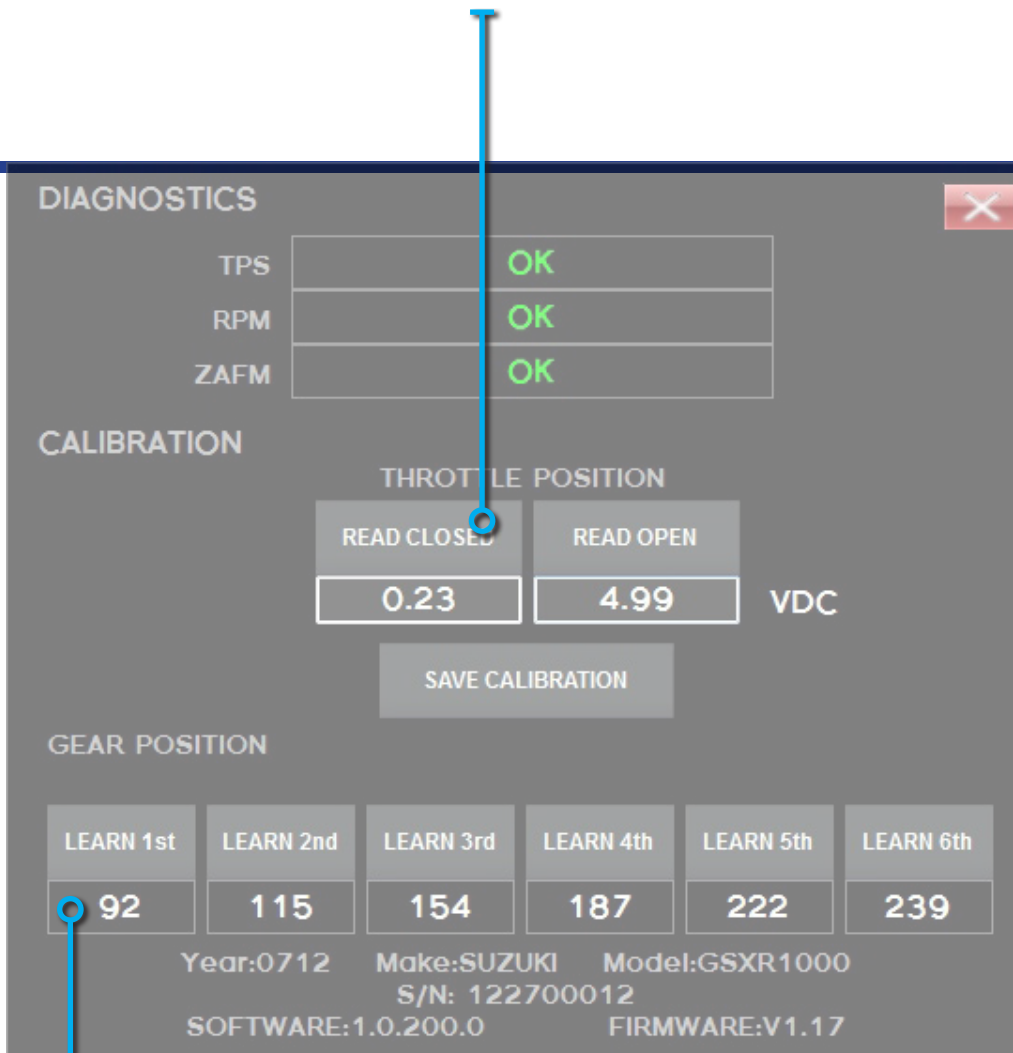
Only to be used for diagnosing TPS if not reading correctly

With vehicle powered on and USB connected, close throttle and click 'read closed'

Then open throttle 100% and click 'read open'

Click 'save calibration'

Fly-by-wire models must be running to check TPS. Normal cable operated throttles can be checked with just the key on, not running.



INTERNAL GEAR CALIBRATION

Only to be used after changing internal transmission ratios with the guidance of Bazzaz professional tech support

Determine if your vehicle uses a Speed or Gear Position signal. Refer to the Bazzaz installation instructions for your model and move onto next page.

U.S. SUPPORT: (909) 597-8300

INTERNATIONAL SUPPORT: find local dealers at bazzaz.net

INTERNAL GEAR CALIBRATION (SPEED)

Only to be used after changing internal transmission ratios with the guidance of Bazzaz professional tech support

Use extreme caution when operating bike on a rear stand

Connect control unit with USB and launch software

With the engine above 3000 RPM (use a dyno or rear stand), place the bike in 1st gear

Release the clutch, hold the RPM steady at 3000 RPM or greater

Click the LEARN 1 BUTTON and wait momentarily while the mapper calibrates for 1st gear

Once the value above the LEARN 1 BUTTON changes, place the bike into second gear and repeat the process

Repeat these steps for gears 3 through 6

After completing calibration of 6th gear, your bike should read all 6 gears correctly

You MUST calibrate all 6 gears in order for the calibration to be correct

The screenshot displays the Bazzaz diagnostic software interface. It is divided into three main sections: DIAGNOSTICS, CALIBRATION, and GEAR POSITION.

DIAGNOSTICS: Shows three status indicators: TPS (OK), RPM (OK), and ZAFM (OK).

CALIBRATION: Features a THROTTLE POSITION section with two input fields: READ CLOSED (0.23) and READ OPEN (4.99), both in VDC. A SAVE CALIBRATION button is located below these fields.

GEAR POSITION: Displays a table of learned gear positions for each gear from 1st to 6th.

LEARN 1st	LEARN 2nd	LEARN 3rd	LEARN 4th	LEARN 5th	LEARN 6th
92	115	154	187	222	239

Additional information at the bottom of the interface includes: Year:0712, Make:SUZUKI, Model:GSXR1000, S/N: 122700012, SOFTWARE:1.0.200.0, and FIRMWARE:V1.17.

INTERNAL GEAR CALIBRATION (GEAR)

Only to be used after changing internal transmission ratios with the guidance of Bazzaz professional tech support

Connect control unit with USB and launch software

With the ignition on (bike does not have to be running), place the bike in 1st gear

Click the LEARN 1 BUTTON and wait momentarily while the mapper calibrates for 1st gear

Once the value above the LEARN 1 BUTTON changes, place the bike into second gear and repeat the process

Repeat these steps for gears 3 through 6

After completing calibration of 6th gear, your bike should read all 6 gears correctly

You MUST calibrate all 6 gears in order for the calibration to be correct

ACCESSORIES >

MAP SELECT SWITCH

Handlebar-mounted toggle will switch between fuel/TC maps on the fly

TC ADJUST SWITCH

Make adjustments on the fly with this handlebar-mounted switch and dial

Switch between two sets of fuel/TC maps

Dial traction sensitivity up, down, or off to tune TC faster or account for changing conditions



TC ACTIVE LIGHT

Illuminates when traction control is activated

Helpful in determining when and where traction control is being actuated

QS4 USB SHIFT LIGHT

Illuminates at user-determined points for optimal shifting

For use with QS4 USB product

U.S. SUPPORT: (909) 597-8300

INTERNATIONAL SUPPORT: find local dealers at bazzaz.net

SUPPORT

Videos and e-mail support at bazzaz.net

In the United States call (909) 597-8300

For international support, find your local dealer at bazzaz.net

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