INSTALLATION DOCUMENTATION

Installation procedure for Suzuki GSX-R- 2000-2001-2002 kit Version 1.04

SUZUKI GSXR 2000-2001-2002 PLUG AND PLAY KIT

27/05/2004

BIKE KIT

KIT DESCRIPTION

The kit for **Suzuki GSX-R** is composed of the following objects:

- MyChron 3 PLUS or MyChron 3 GOLD
- Plug and play wiring for MyChron 3 PLUS or MyChron 3 GOLD
- Installation kit including: 1 bracket, 2 anchor plugs, 4 anti-vibration mountings, screws, washers
- TPS (Throttle Position Sensor) "split cable" (optional available for GOLD versions only)
- Gyroscope (optional available for GOLD versions only) needed to map tracks
- CD-ROM including Race Studio 2 software
- Documentation

The kit for **Suzuki GSX-R** has been developed for the **K2** version and for the following cubic capacities: 600 cc, 750 cc, 1000 cc. Please, refer to the following table in order to understand which Suzuki GSX-R is supported by our kit.

Cubic capacity (cc)	Year 2000	Year 2001	Year 2002
600	\checkmark	1	1
750	\checkmark	\checkmark	\checkmark
1000	•	\checkmark	\checkmark

 $\sqrt{1}$ = supported

• = NOT supported

The **MyChron 3 Plus/Gold** version **Suzuki GSX-R** has been designed and developed in order to be a "plug and play" system to be connected to the "on-board" wiring.

The aim of this kit is to merge the functionalities of the stock dash together with the ones of a professional data acquisition system.

The **MyChron 3 Plus/Gold** version **Suzuki GSX-R** may be used both on track (lap times, split times, engine's parameters, gyroscope to map tracks) and on street (odometer, water temperature, oil pressure alarm, fuel level).





Suzuki GSX R

2000-2001-2002 600 - 750 -

1000cc



The gauge, as the stock dash, is powered by the bike's master switch. Moreover, when installing your **MyChron 3**, you do not have to cut, to bend or to drill anything: each component of the kit has been designed to be plug and play.

The gauge has to be connected to the head lights using the bracket and the anchor plugs supplied with the system. Both bracket and anchor plugs are made in black anodized aluminum, in order to be lightweight and mechanically resistant.

GENERAL NOTES – Read this before installing the system

- Do not cut any wiring: the wiring supplied with the kit is plug and play;
- Please, be careful not to damage the on-board connectors when plugging/unplugging them. In the following pages is described how to correctly manage them;
- Do not install the system when the engine is hot. The on-board connectors are quite near to the engine and you can burn yourself;
- The space under the gas tank is quite confined: be careful not to hurt yourself when plugging and unplugging the connectors. If necessary, please remove the gas tank in order to have a wider available space;
- Be careful not to loose stock screws and washers.
- Do not damage the fairing when installing/uninstalling it.

INSTALLATION STEP #1 – Removing the front and lateral fairing

The first installation step consists in removing the front transparent fairing and the right lateral fairing.

It is suggested to remove the front fairing in order to uninstall the stock dash and install the new one in an easier way.

The front fairing is locked to the chassis using 6 hex screws.

In Figure 1 it is shown the location of four 4 mm hex screws: please remove them.



Figure 1: Front fairing – 4 mm hex screws



In Figure 2 is shown the location of two 5 mm hex screws (one per each bike's side). Once unscrewed them, you may remove the front transparent fairing.

NOTE: the front fairing is installed using 4 anti-vibration mountings. When re-installing the front fairing, please be careful to install the anti-vibration mountings correctly.

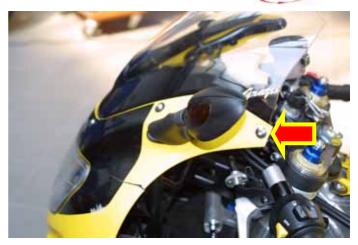


Figure 2: Front fairing - 5 mm hex screw

The gauge's wiring has to be installed on the right side of the bike. For this reason, removing bike's right lateral fairing is necessary (left lateral fairing is not needed to be removed).

The lateral fairing is fixed to the chassis with 10 hex screws and 4 plastic pins.

The screws are red circled in Figure 3, while the plastic pins are highlighted with a red/ yellow arrow in Figure 3 and Figure 4.

In particular, the plastic pin shown in Figure 3 is located close to the front splash-guard and to the front fork; this pin is visible only if front looking the bike.

The other 3 plastic pins are located in the

In order to correctly removing them, please

lower part of the bike.

see Figure 5.



Figure 3: Right lateral fairing – of screws/pins location

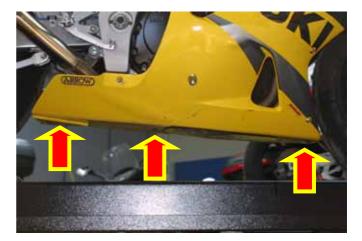


Figure 4: Junction right-left fairing – pins location

3



Please, use a flat screwdriver to remove the plastic pins. To remove the pin, insert the screwdriver inside the rectangular slot and rotate it.

Once all hex screws and pins have been removed, you may uninstall the right lateral fairing.



Figure 5: Removing plastic pin using a flat screw driver

INSTALLATION STEP # 2 – Removing the seat and uplifting the bike's gas tank

As some of the bike's connectors are very close to the engine and are located under the gas tank, it is necessary to uplift the gas tank.

To uplift the gas tank, is first of all necessary to remove the driver's seat.

As shown in Figure 6, please unscrew the 3 hex screws located on the right and left side of the bike.

Once unscrewed them, you may remove the driver's seat.

The gas tank is hinged to the chassis near to the driver's seat and is fixed with

2 hex screws near to the front fork.

Figure 6: Seat

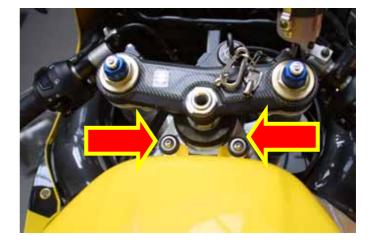


Figure 7: How to remove the gas tank



Once removed the 2 hex screws, you may uplift the gas tank using the bracket supplied with the bike's standard equipment.



Figure 8: Uplifting the gas tank

INSTALLATION STEP # 3 – Remove stock dash and unplug on board connectors

The third installation step consists in removing the stock dash and unplugging the "on-board" connectors.

The stock dash is fixed to the bike in 3 points: 1 of them is screwed to the head light, while the other 2 points are fixed to the head light with anchor plugs inside anti-vibration mountings.

First of all, remove the screw located in the lower part of the stock dash, as shown in Figure 9.

Once the screw has been removed, you may uninstall the stock dash: please, pull it away from the head light. Be careful not to damage the anchor plugs (made with plastic) and the anti-vibration mountings.



Figure 9: Removing the screw from the stock dash



Figure 10: removing the stock dash



Once removed the stock dash, you have to unplug the AMP 16 pins connector from the dash's backside.

As shown in Figure 11, please remove the protective plastic cover and, then, push down the locking tongue (highlighted with a red/yellow arrow) and pull out the connector from the dashboard.



Figure 11: unplugging the on board dash connector

Figure 12 shows the standard location of the following on-board connectors: Gear, Water temperature and TPS (optional -**MyChron 3 GOLD** only).

For further information concerning the "onboard" connectors, please see figures from 13 to 15.

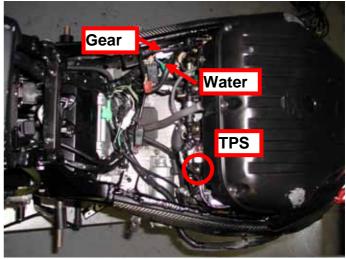
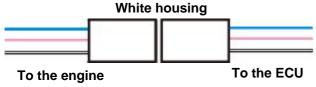


Figure 12: on board connectors – Water temperature / Gear / TPS

The on-board **GEAR** connector, shown in Figure 13, is a 3 pins / white coloured connector which, usually, is located on the bike's left side (as shown in Figure 12).

Here below is a drawing of both male and female GEAR connectors.

NOTE: cable colours correspond to the real ones.



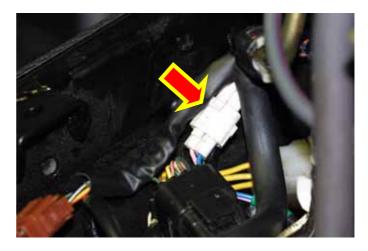


Figure 13: Gear connector - particular

6



The on-board **Water temperature** connector, shown in Figure 14, is a 2 pins / green coloured connector located on the bike's left side (as shown in Figure 12).

Here below is a drawing of the water temperature connector.

NOTE: cable colours correspond to the real ones.

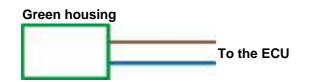


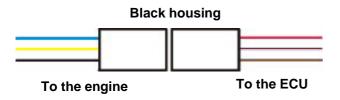


Figure 14: Water temperature connector - particular

The on-board **TPS** (Throttle Position Sensor) connector, shown in Figure 15, is a 3 pins / black coloured connector located in the bike's middle part (as shown in Figure 12).

Here below is a drawing of the TPS connector.

NOTE: cable colours correspond to the real ones.



NOTE: how to unplug a 3 pins connectors

The 3 pins male/female connectors are firmly plugged together.

In order to unplug the male connector from the female, please use a flat corkscrew to push down the locking tongue and, then, unplug the 2 connectors.

NOTE: please, be careful to pull the 2 connectors by the housing and not by the wiring (you might seriously damage the wiring unplugging each cable from the 3 pins connector).

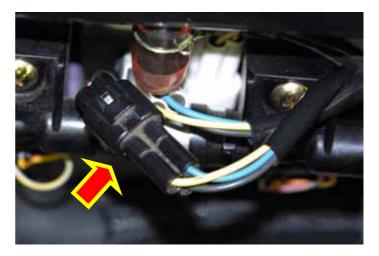


Figure 15: TPS connector – particular



Figure 16: How to unplug a connector



INSTALLATION STEP #4 – Assembling the kit

The fourth installation step consists in assembling the kit for **Suzuki GSX-R**.

- Install the 4 anti-vibration mountings on the backside of your MyChron 3 Plus/Gold;
- Install the 2 anchor plugs on the aluminium bracket. Please use the Grover washers. See Figure 17 for further information.
- Install your MyChron 3 Plus/Gold on the aluminium bracket: the bracket has to be fixed to your MyChron 3 in correspondence of the 4 anti-vibration mounting and has to be fixed using 4 screws and 4 Grover washers.

In Figure 18 is shown the correct assembly of **MyChron 3**, bracket and anchor plugs (rear view)

Before installing the assembled kit, it is suggested to lubricate the anchor plugs' head so to easily insert them inside the anti-vibration mountings located on the head light.

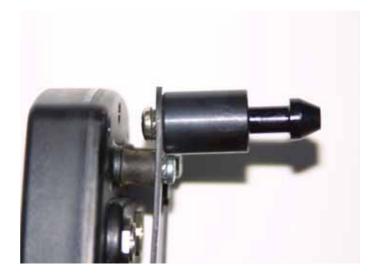


Figure 17: Anchor plugs installation - particular



Figure 18: MyChron 3: bracket and anchor plugs – rear view

INSTALLATION STEP # 5 – Wirings connection

The fifth installation step consists in installing the wiring supplied with the kit.

The front transparent fairing is locked to the bike's chassis using a little chassis made with a cylindrical pipe. The wiring supplied with the kit must be installed between this chassis and the head lights.

In fact, as shown in Figure 19, the head light has a little groove in the middle part where the user may let the wiring run.



Figure 19: Wiring installation



To install the wiring, follow these instructions:

- Let wirings labelled "Ch.1 Water temp" and "Gear" (if you have a MyChron 3 PLUS), or "Ch.1 Water temp", "Gear", "Gyro", "Ch.3" and "Ch.4" (if you have a MyChron 3 GOLD) pass between head light and front fairing chassis as in Fig. 20.
- 2. Please note: MS 26 pins connector, wiring "Lap" and "analog input" (that terminates with a black aluminium box) should remain up to the front fairing chassis. We suggest to insert the wiring from the top (channels interface box and MS connector are too big to pass between chassis and head light.
- 3. Let "Gear", "Water temp" etc... wirings run along the chassis, as in Figure 21. Please, use plastic wrappers to fix them to the bike's stock wiring.
- 4. "Gear", "Water temp" and "TPS" onboard connectors are located under the gas tank: so, please let these wirings enter the engine compartment, as highlighted in Figure 21.
- 5. As you noticed, "Gear", "Ch.1 Water temp" and "TPS" cables have 2 connectors: a male and a female. Please, plug AIM wiring's male connector to stock wiring's female one and AIM wiring's female connector to stock wiring's male one.
- Connect the 16 pins black connector to the male connector located inside the black aluminium box (push the connector till you hear a click). See Figure 22 for further information.
- Once the 16 pins connector has been plugged, use the plastic cover of the stock dash to make the connection waterproof.



Figure 20: Wiring installation



Figure 21: Wiring installation – run the wiring along the chassis



Figure 22: Wiring installation – particular of the AMP connector

INSTALLATION STEP # 6 – Installing the kit

The sixth installation step consists in plugging the 26 pins MS cable connector to your **MyChron 3 PLUS/GOLD**.

Once the connector has been correctly installed, as in Figure 23, please place the black aluminium box between the MS connector and one anchor plug. Once the channels interface box has been correctly installed (use Velcro or plastic wrappers to fix it), you may mount the assembled kit on the head light.

NOTE: before installing the assembled kit, we suggest to lubricate anchor plugs' head so to easily insert them in the anti-vibration mountings located on the head light.

In order to fix the new dash to the head light, please use the screw used to fix the stock dash (see Figure 24 for further

Moreover, you may use plastic wrappers

Before re-mounting the lateral fairing, the front fairing, the seat and the gas tank, we suggested You to turn on the bike in order to check the system's integrity and its correct installation.

to fix the new wirings to the chassis.

information).

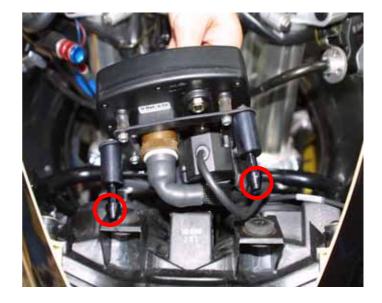


Figure 23: Kit installation



Figure 24: Kit correctly installed

FIRMWARE FOR MYCHRON 3 PLUS/GOLD GSX-R

As your **MyChron 3 Plus/Gold Suzuki** has been designed both for street and track use, and as the information the driver wants to display are different for street and track use, your **MyChron 3 Plus/Gold Suzuki** is equipped with a special firmware version which provides you a **second virtual dashboard**.

When you drive on a street, the display is on "**street mode**" and shows these parameters:

- RPM graphical bar: upper limit settable;
- RPM digital value/Battery voltage in upper right corner (use button VIEW/QUIT to switch among RPM and battery voltage);
- Total non-resettable odometer / Speed in the lower right corner (use button >> to switch among odometer and speed);
- Partial resettable odometer (upper left corner);
- Water temperature in the lower left corner.

Once you go on a track and your gauge triggers a lap (you pass in front of a switched-on lap transmitter), the display switches automatically to "**track mode**" and shows these parameters:

- RPM graphical bar: upper limit settable;
- RPM digital value/Battery volt./Speed in the upper right corner (press VIEW/QUIT);
- Lap / split times in the lower right corner (use button >>);
- Oil pressure in the upper left corner;
- Water temperature in the lower left corner.

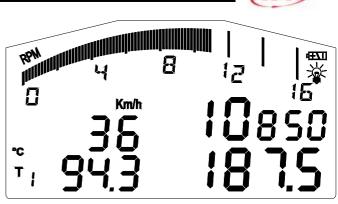


Figure 25: Street display



Figure 26: Track display

In order to step back from "track mode" to "street mode", please switch off the gauge and then re-switch it on. The gauge will automatically set to "street mode".

NOTE: for further information concerning the display management and its configuration, please refer to the MyChron 3 Plus / Gold / Gold XG user's manual.

MYCHRON 3 PLUS/GOLD SUZUKI CONFIGURATION [RACE STUDIO 2]

Your MyChron 3 Plus/Gold Suzuki may be interfaced with the PC in order to:

- download the data stored in the internal memory;
- upgrade the gauge's firmware;
- configure the gauge.

Once you buy a **MyChron 3 Plus/Gold Suzuki**, the gauge already includes a configuration properly developed for your Suzuki bike: all sensors, calibration curves, engine parameters, speed parameters, etc... have already been set to a default value which guarantees you the possibility to plug in the input cable and start running.



Anyway, if you wish to change, for instance, the RPM upper value or the shift lights, if you wish to add a potentiometer sensor or a gyroscope on your **MyChron 3 Gold Suzuki** and you need to calibrate them, if you change the crown or the pinion with a "different teeth number" one, you need to use our software **Race Studio 2**.

The CD-ROM including software, USB drivers, installation documentation and user's manual is included in the **MyChron 3 Plus/Gold Suzuki** kit. If you have any doubt concerning the software or the USB drivers installation, please refer to the installation manuals included in the CD-ROM.

The following table shows the input channels for both **MyChron 3 Plus Suzuki** and **MyChron 3 Gold Suzuki**. Please note that **MyChron 3 Plus** has no free input channels (i.e. the 4 input channels are sampled from the "stock" wiring and there are no "free cable-connectors" for external sensors), while **MyChron 3 Gold** has 2 free input channels and a gyroscope input which need to be configured and calibrated through **Race Studio 2** Software.

MyChron 3 Plus Suzuki

- Ch. 1 Water temperature
- Ch. 2 Oil pressure switch
- Ch. 3 Fuel level
- Ch. 4 Turn signal

MyChron 3 Gold Suzuki

Ch. 1	Water	r tempe	eratu	re		
Ch. 2	Oil pr	essure	swite	ch		
Ch. 3	Free	input	ch.	_	use	Race
Ch. 4	Studio	2				
Gyroscope	Free	input	ch.	_	use	Race
	Studio	o 2				
	Use F	Race St	udio	2		

In order to correctly configure your gauge and to easily use **Race Studio 2**, please follow these instructions.

Run **Race Studio 2** and select the "M3 Auto-Moto Plus/Gold/XG" pushbutton in the buttons toolbar.

Press button "System manager" and then "New" button: the screenshot shown in Figure 27 will be prompted.

Please, set all the configuration parameters (Logger type, vehicle name, speed, temperature and pressure unit of measure) and then press button OK.

New configuration	×
Data logger type	M3 SUZUKI GSX-R - GOLD
Vehicle name	Test
Speed measure unit	km/h
Temperature measure unit	▼
Pressure measure unit	bar
OK	Cancel

Figure 27: Race Studio 2 – New configuration



Once pressed OK button, the System manager window will be prompted on your monitor, as shown in Figure 28.

In order to correctly configure the input channels, please select it among the available ones (in Figure 28, for instance, there are 2 available configuration: the yellow-highlighted is the selected one) and press button "Channels".

The screenshot shown in Figure 29 will be prompted on your monitor.

MyChron 3 Plus Suzuki:

As previously described, this logger has no free input channels, so this page is just a summary and the user may not change anything.

MyChron 3 Gold Suzuki:

This logger has 2 free input channels, labelled as CH. 3 and CH. 4. By clicking in the correspondent cell (row "CH 3 / CH. 4" and column "Sensor type") you will be able to set the input channel among a long list of pre-defined sensors or, if you wish, you may set a user-defined sensor selecting "custom sensor manager". Moreover, you may set the channel name and the sampling frequency.

Once all sensors have been correctly set, please press button "Configuration".

Configuration window (Figure 30) allows You to set shift lights and alarms threshold value, to change unit of measure, speed parameters, etc..

1) Speed:

The speed sensor on your Suzuki bike is installed on the jackshaft which connects the gearbox to the pinion. The number of magnets installed on this jackshaft is **4**.

The wheel circumference written in the proper cell is an "equivalent circumference" calculated using the following formula:

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Figure 28: Race Studio 2 - System manager window

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Figure 29: Race Studio 2 - Input channels window

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Figure 30: Race Studio 2 – Configuration window

Equiv Circumf = $\frac{Wheel Circumf * N_p}{N_c}$ where N_p = Pinion teeth number - N_c = Crown teeth number



Using the default values for crown/pinion teeth number and wheel circumference for a **Suzuki GSX-R 750**, the equivalent circumference is **801.4 mm (31.55 inches)**.

2) Shift lights:

The values described in the 5 cells may be modified by the user in order to switch on the leds at the desired RPM value. The 5 default values are the proper ones for a Suzuki GSX-R 750: in case you have a GSX-R 600 or a GSX-R 1000 you may need to modify such thresholds.

3) RPM:

Please, DO NOT modify the "Multiply factor" (the default value is /1).

In order to change the RPM scale upper limit, please select the desired value among the 7 default ones.

4) Channel 1 Alarm:

As previously described, channel 1 is used to sample water temperature.

The alarm for channel 1 is defined as a "Maximum alarm", i.e. the led is switched on when water temperature is greater than the threshold value.

The default value is 90 °C (194 °F).

5) Channel 2 Alarm:

As previously described, channel 2 is used for oil pressure switch.

The alarm for channel 2 is defined as a "Minimum alarm", i.e. the led is switched on when oil pressure is lower than the threshold value.

The default value is 2.5 Bar (36 PSI).

6) Channel 3 Alarm:

If you have a **MyChron 3 Gold Suzuki**, you may set the proper threshold values corresponding to the sensor you have installed on channel 3.

If you have a **MyChron 3 Plus Suzuki**, the 3rd channel is used for fuel level. Please, do NOT modify the threshold values, otherwise you might run out of petrol. The default values for this alarm are:

- HIGH \rightarrow LED: none \rightarrow Value: 200
- LOW \rightarrow LED: 3 \rightarrow Value: 100 (corresponding to 4 litre 1 gallon)

7) Channel 4 Alarm:

If you have a **MyChron 3 Gold Suzuki**, you may set the proper threshold values corresponding to the sensor you have installed on channel 4.

If you have a **MyChron 3 Plus Suzuki**, the 4th channel is used to turn signal. Please, do NOT modify the threshold values, otherwise you might not see the turn signal on the display. The default values for this alarm are:

- HIGH \rightarrow LED: 4 \rightarrow Value: 400
- LOW \rightarrow LED: none \rightarrow Value: 0

8) Gear sensor:

The Suzuki plug & play kit allows the user to sample the gear directly from an "on-board" sensor installed inside the gearbox. In order to allow your **MyChron 3** to sample the gear, please do NOT modify the gear sensor default value which is set to **potentiometer**.

Once you set the desired input channels on your MyChron 3 Gold Suzuki and/or you set the desired threshold values for the alarm leds or the shift lights, you have to transmit the configuration to the logger: to do so, please press OK button and then "Transmit" button on the next screenshoot.



ATTENTION: before transmitting the configuration, the logger must be connected to the PC as shown in Figure 31 and the USB drivers must be correctly installed. For further information concerning the USB drivers installation, please refer to the proper manual.

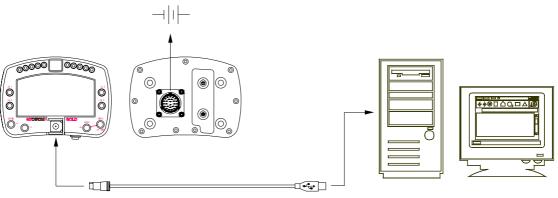


Figure 31: How to connect the logger to the PC

MyChron 3 Plus Suzuki owners:

Once you modified the desired configuration parameters and you transmitted the configuration, your logger is ready for street and track use.

MyChron 3 Gold Suzuki owners:

If you have installed a gyroscope (for track mapping) and/or a fork travel potentiometer (or a rear shock travel potentiometer), you have to calibrate these sensors to sample correct data.

Please, click on "Calibrate" button: screenshot shown in Figure 32 appears.

The sensors are grouped into 2 categories: "to be autocalibrated" and "to be calibrated".

The "to be autocalibrated sensors" are: Gyroscope

Potentiometer distance

The "to be calibrated sensors" are: Zero based potentiometer Mid zero potentiometer

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Figure 32: Race Studio 2 – Calibration window

Please, refer to the user's manual for further information concerning the calibration / auto calibration procedure.

Once finished calibrating/auto calibrating the sensors, you have to transmit the configuration to the logger pressing button "Transmit calibration" inside the "Sensor calibration" window. Now your logger is ready for street and track use.

"SOFTWARE – FIRMWARE" COMPATIBILITY WARNING

ATTENTION: The previous documentation was written using the following versions of software and firmware:

- Race Studio 2 Ver. 2.16.00
- MyChron 3 Plus/Gold Firmware 3.06



If you use an "old" firmware version (earlier than 1.63) and a "new" software one (for instance 2.15.05 or 2.16.00), you might incur in a software – firmware incompatibility. The problem you will experience is that the firmware is too old to manage the new "on-board" bike sensors, like turn signal, oil pressure switch and fuel level and so you will not be able to see the leds corresponding to channels CH. 2 - CH. 3 - CH. 4 correctly switch on/off. Moreover, the old firmware does not manage the second virtual dashboard (see page 8 -Firmware for MyChron 3 Plus/Gold GSX-R).

The solution for this problem is to:

Upgrade the firmware of your MyChron 3 Plus/Gold to a version greater (or equal) • than 3.06

The last version of firmware (and the last version of software), is freely downloadable from our website - click here.