

SGRACE ZX10 '16



The SGRACE is our latest high performance creation; we have put down an enormous amount of energy both in time, technology and knowledge to create a reliable and innovative product. It is a "Strain Gauge" sensor type that, thanks to own electronic and manufacturing tricks, guarantees reliable and long lasting performances. This product is intended for use on a closed circuit only. It's not homologated for road use. The manufacturer of this product is not liable for any kind of damage or injury deriving to the operator, vehicle, or to third parties from the use of this product.

MADE IN ITALY



DISCLAIMERS



- System setup must always be done with bike stop and on stands.
- A wrong setting could affect, partially or fully, the system effectiveness damaging the gearbox.
- System setting is responsibility of the user and not of the manufacturer. Take care to sensor fixing to avoid it unscrew or interfere with other parts of the bike.
- The use of this product is at the total discretion of the private parties.
- The manufacturer of this product is not liable for any kind of damage or injury deriving to the operator, vehicle, or to third parties from the use of the product.
- Each system modification, both hardware and software and harness or single components, could affect the system functionality with potential damage or injury caused to the operator, vehicle, or to third parts and delete the product warranty.
- Installation must be done carefully following these instructions. It's strongly recommended to test the product and the bike after the installation.
- Installation is a very critical operation for system effectiveness. Be sure that it is done by competent and specialized personnel.

This manual is issued on Oct 21st in Rev. 3.0. It's the end user responsibility to periodically visit the website www.irccomponents.it in order to check new releases of the manual.

1. CONNECTIONS

Sensor has "magic threads" i.e. both right and left. Connect the sensor to the shiftrod (not included in the kit), cut it if necessary. Tight the nuts and the eventual grubs to avoid disconnections due to vibrations. Install sensor and rod with uniball links on both ends, most bikes have uniballs stock, check that the shiftrod does not rub or touch anything, could impair sensing. Put sensor far from very hot parts. Make sure wire has a slight bend/loop so it does not tighten up and pull at the sensor during up or down shift. Warranty doesn't cover ripped out wires.



WARNING: To adjust sensor positioning act on the proper planes. Sensor failure could occur of acting on the cover.

2. DISPLAY

After powering, the ECU makes a general check and, if passed, the display will show the firmware version.



WARNING: don't act on the sensor till this procedure has finished.

Whenever the pre load threshold is passed (par. 3.3), the display will show "--".

In case of failure, on the display will appear an "E" followed by a number. Give this code to the assistance.

3. INITIAL SET UP

Press both buttons to enter in the programming. Push lower button to scroll the menus forward while push the upper one to scroll backwards. Press and maintain the lower button to enter into the various menus. To exit from the menu and undermenus, press upper or both buttons. System will go out of programming if no buttons are pushed except the "r" menu. During programming, the quickshifter is not working.



WARNING: Act only on the following setup options. Don't touch the other menus.

3.4 Pre Load adjustment "L"

When passed this preload in up/down, the shifter will give the proper analog value to the bike ECU.

Default setting "12" it's possible to change the load necessary to apply on the sensor for having the upshift and downshift signal. With ignition on, engine off, try to

select the upper gear. Shift lever should move through the spring load in gearbox until gear resistance is felt.

3.5 Actual Load displaying "S"

Entering in this menu it's possible to read the actual load value. Useful feature for preload adjustment and for gearbox check and maintenance.

3.5.1 Max Load displaying "--"

At this point, pressing and holding the lower button, the display will show blinking "--" for about 10s. Afterwards it will show the max load value registered in this period. Useful feature for preload adjustment and for gearbox reliability and maintenance. During this menu the sensor is enabled.

3.10 Bottom/Upper limits "dr"

If your system has the analog output, set "5"= $\pm 50\text{Kg}$, "10"= $\pm 100\text{Kg}$.

3.11 Pushing/Pulling "CE"

"C" Pushing, "E" Pulling.

4. CONNECTIONS

Plug the black connector to the bike female quickshifter connector.

Red wire must be +12 powered. We suggest lower injectors.

5. WORKING CONDITIONS

8÷17.5V; -20°C÷+95°C.

We appreciated your business.

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