

## POWER SHIFT - NRG

QUICK SHIFT KIT with **NEW REVOLUTIONARY NRG SENSOR**  
for ROAD , SUPERMOTO, MOTOCROSS, ENDURO Motorbikes, ATV and KARTS

POWER SHIFT NRG enables the driver to engage the gears without using the clutch and when the throttle is completely open.



The advantage for the driver results in extremely short shift times, but above all in perfectly keeping the motorbike trim when speeding up at the exit of a corner since no pitch and loss of traction is triggered by the closing and reopening of the throttle.

The sensor can be easily installed on the gearbox lever or pattern rod and it is directly connected with the small central unit that can be easily installed and adjusted.

### How it works:

At any shift of gears, the lever is subject to the energy of the driver's action. The sensor constantly conveys the energy of the stress it is subjected to the central unit that will power off the engine for some milliseconds (typically 40-50) after having reached the value set up by the user. The short power off time is enough to engage the gears while keeping the throttle completely open without acting on the clutch.

### **THE NEW INCREDIBLE NRG SENSOR PROTECTED BY STARLANE WITH 2 PCT INTERNATIONAL PATENTS**

POWER SHIFT NRG uses the new NRG sensor, which is the result of Starlane's 10-year experience in conceiving and accomplishing solutions intended to detect the shift of gears, which has induced important Italian motorcycle industries, as leaders in the World Superbike Championship, to use Starlane shift sensors on their own official motorbikes.



The miniaturised NRG sensor is intended to detect not only the simple shift, but a signal proportional to the intensity of the driver's action on the lever and pattern rod. This solution can provide for an extremely valid and accurate system without fastening to the engine or the chassis any counterpiece or spring adding troublesome clearances to the leverage. This means that it is not sensitive to the lever vibrations and oscillations due to the asphalt roughness as well as to the lever shift due to the involuntary action of the driver's foot.

This result can not be achieved by the common systems on the market, which detect the simple lever shift by means of linear sensors or complete with a microswitch because characterised by a very low accuracy level..

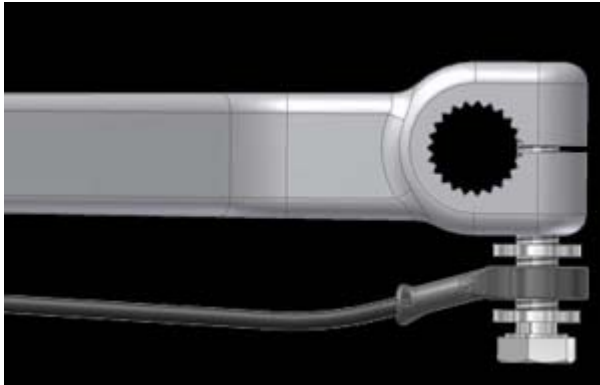
The sensor is monolithic, composed by one single piece without any movable part. It is not subject to any wear effect.

**Why the new NRG system is so revolutionary, safe and profitable:**

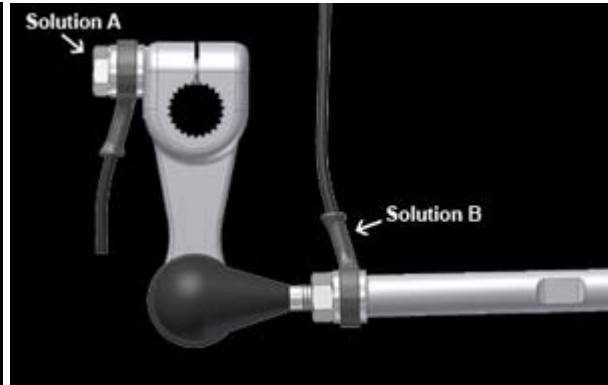
1. The new sensor can be universally installed in just a few seconds on all motorbikes.
2. The sensor always remains in the most protected area in case of CRASH.
3. Any impact against the curbs that may bend or damage the lever lengthwise and make any other solution inefficient is unable to have any effect on the NRG sensor operation.
4. One single article can be used on all Road, Supermoto, Enduro and Cross motorbikes. If you change motorbike model, you can keep the same POWER SHIFT NRG Kit for the new one.
5. It acts in both directions, even if it is not required by the downshift, this makes it really universal.

The NRG sensor is shaped (washer shape) and sized (small-size) in such a way that it can be installed on all motorbikes in just a few seconds without mechanically changing its original members. This makes it completely universal.

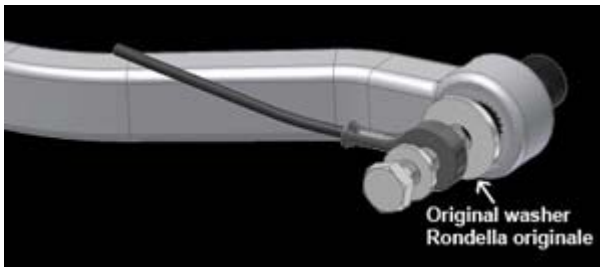
#### MOTOCROSS - SUPERMOTO



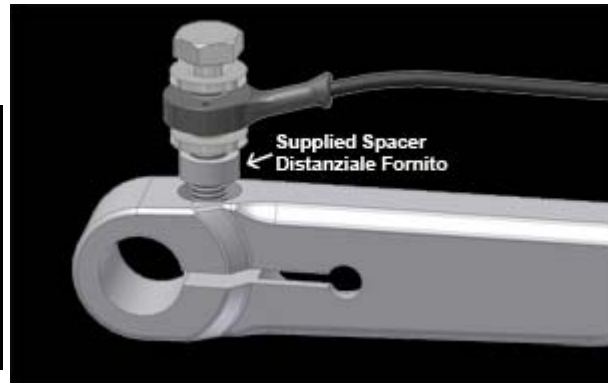
#### ROADRACING



#### KTM LEVER



#### SOCKET HEAD SCREW LEVER



#### POWERSHIFT NRG requires no mechanical setup!



The small electronic control unit enables the user to set up the trip threshold and the cut off time.

**Content of the POWER SHIFT NRG package (COD. EPWSNRG):**

- N° 1 Power Shift Control Unit
- N° 1 NRG Sensor Kit with 2 washers, M6 screw and spacer
- N° 1 Dual Lock Adhesive strap fastening kit
- N° 1 Supply cable from 12V vehicle battery
- N° 2 Connection cables for engine cut off
- N° 1 User Manual

**ATTENTION:**

**Please mount the POWER SHIFT SUZUKI version (COD. EPWSSZ) on Suzuki road motorbikes not supplied with a Yoshimura ECU.**

**Optional Accessories:**

**EXTERNAL BATTERY CASE FOR DOUBLE COMMERCIAL 9V BATTERY TYPE PP3**  
(COD. BPP3C2)

**HANDLEBAR ON/OFF SWITCH**  
(COD. OFSS)