CORDONA
PRECISION TECHNOLOGY

GP ASG Superbike Quickshifter - Blipper

Only for closed circuit use.

Plug and Play instruction (Detailed instruction check Page 2 or www.cordona.net/files)

Important!!! For BMW S1000RR K46 the bike ECU must be upgraded with wider shift strategy tolerances to make a Cordona race shifter work. Contact Cordona for more information.

!!!!!For both K46 and K67 model a bike adaption is needed. Adaptation values are data that the ECU learns by itself. Examples are: voltage values for gears, throttle valve, e-gas. These are always required when manufacturing tolerances or tolerances of the electrical sensors must be compensated. Thus correctly adapted adaptation values are absolutely necessary for a correctly functioning electronics. At the same time, incorrectly programmed or learned adaptation values are a frequent cause of malfunctions. Check this video for shift adaption procedure: https://www.youtube.com/watch?v=JWwW81_tsrs

1. Plug (Install the GP ASG Superbike sensor)

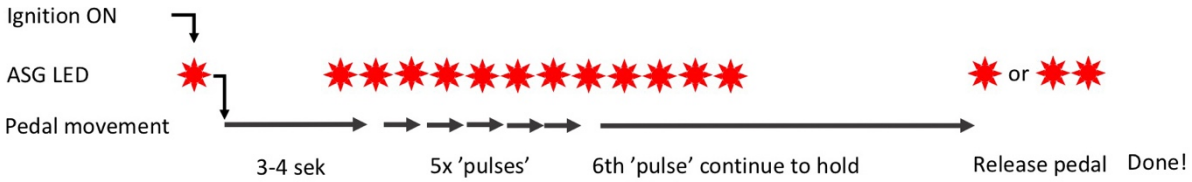
- Tools needed;
  Mounting of rod linkage: 8mm and 10mm spanner and typical Allen key for foot rest/gear lever bolts.

- The sensor can be mounted in any direction in the rod linkage. The sensor only detect push or pull movement.
- Mount the sensor, rod, pin bolts, nuts etc. to a complete linkage.
- Mount the sensor linkage assembly to the bike, adjust the length and secure all nuts on the linkage.
- Locate the sensor module away from very how areas and direct heat, preferable with cool air circulate around the module. The electronics are specified for maximum +85 degrees Celsius. See picture at next page for recomended location
- Connect to bike Quickshifter-Blipper connector.
- Gently secure the sensor cable with cable ties. Do not make to sharp bend or tighten to hard, that could damage the sensor cable.

2. And (if needed, Change the **Up shift direction)

- This GP ASG shifter comes pre configured for 'PUSH' upshift direction and two flashes at the electronic module LED.
  Follow the procedure below to change direction of shift;
  The pedal movement shall be quite hard, either by hand or foot and with same amount of force for each movement.

- Switch on the ignition of the bike. Do not start the engine.
- The LED flash 1 or 2 times depending on which up shift direction is set.
- The pedal movement shall be in the new Up Shift direction.
- One flash means PUSH direction, two flashes means PULL direction of Up Shift.
- The pedal movement shall be quite hard, either by hand or foot and with same amount of force for each movement.
- First pedal movement shall be approx 2-3s after LED goes black.
- The rapid LED flashes means you are in configuration mode.
- After the rapid flash stops, continue to hold pressure until the LED flash one or two times.



3. Play

4. Detailed information

Red: Supply Power +5v to +12v
Blue: Ground
White: Output signal to ECU, range 0.5 – 4.5v, no load 2.5v
Yellow: Output signal to ECU range 0.25 - 2.25v, no load 1.25v

- The GP ASG Superbike sensor supports bike up and down shift or only upshift.
- The rod can be shortened to fit. Use a hacksaw, 5 mm drill and M6 tap.

5. Important Information

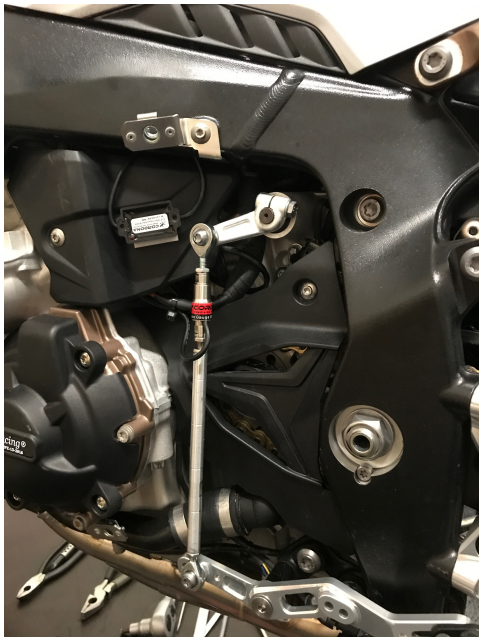
- Resting the feet at the gear change pedal is not recommended. The quickshifter can trig unexpected shift signal to the bike ECU.
- Downshift shall be performed with the throttle closed.
- Check that the foot rest do not flex too much, this could cause ECU ignition to cut unexpectedly under high load on foot rest, making the foot rest flex to activate Up or Down shift.

6. Configuration of shift direction

Important!!! Consider that changes in the gear box lever direction or gear lever rod position can change direction of shifting compared to original position. Always look at the sensor if its pushed or pulled when you set up- or down shift.

7. Module placements; BMW S1000RR K67 year 2019-

BMW S1000RR The ASG Sensor module is preferable mounted at the plastic cover with included velcro (left photo).
For other placements ensure the electronic module is not to close to hot engine parts, preferable with a free flow of air around the module. The electronics are specified for maximum +85 degrees Celsius.



8. Self Monitor System

- The red LED will be ON constantly if the sensor is broken or disconnected from the CPU. Reconnect sensor or replace with spare sensor, settings will not change after a sensor replacement, just switch off and back on and the unit will auto calibrate the new sensor.
- Note: some bikes have power to the ignition system on for approximately 2 minutes after ignition OFF. In that case, disconnect and reconnect the ASG to perform the above configuration, or just wait for 2 minutes.