AT EACH REMOVAL AND REFITTING OF THE FRONT WHEEL, CHECK THE DISTANCE BETWEEN SPEED SENSOR AND TONE WHEEL, WHICH MUST BE BETWEEN 0.5 mm AND 1.5 mm. IF NECESSARY ADJUST IT BY ADDING OR TAKING OFF CALIBRATED WASHERS OF 0.5 mm.

The ABS system check starts every time turning the key to "ON" and can be repeated, especially at harsh climates, after starting, as it is due to normal battery voltage lowering caused by the starter.

The vehicle is equipped with a locking ABS system on the wheels.

A: Tone wheel
B: Speed sensor

- ABS: It is a hydraulic - electronic device that limits the pressure within the braking circuit when a sensor, located on the wheel, detects its tendency to lock. This system prevents the wheels from locking to avoid the risk of falling.

In case of failure of the ABS system, immediately reported to the rider with ABS warning light on the instrument panel, the vehicle retains the characteristics of a conventional braking system. In case of ABS warning light, reduce speed and go to an Authorised Service Centre for the appropriate checks. The safety provided by the ABS does not, in any case, justify risky manoeuvres. The stopping distance may be greater, compared to a conventional vehicle equipped with traditional braking in the following conditions:

- Riding on rough roads, with gravel or snow
- Riding on roads with holes or bumps

It is therefore recommended to reduce speed in these conditions.

⚠️ AT VERY LOW SPEEDS (LESS THAN 3 MPH) THE ABS SYSTEM IS DISABLED. IT IS RECOMMENDED TO PAY ATTENTION THEREFORE IN CASES OF BRAKING IN LOW GRIP CONDITIONS AT LOW SPEED (FOR EXAMPLE BRAKING ON GARAGE FLOOR TILES AFTER HAVING RIDDEN ON WET ROADS OR SIMILAR SITUATIONS)

N.B.
THE ASR SYSTEM IS ACTIVATED AT EVERY «ON» POSITIONING OF THE IGNITION SWITCH. IF DISABLED BY THE USER, THE ASR SYSTEM KEEPS THE STATE OF INACTIVITY ONLY IF THE VEHICLE IS OFF, BY USING THE ENGINE STOP SWITCH; AT THE NEXT KEY ON THE ASR SYSTEM IS ENABLED AUTOMATICALLY.

CAUTION

⚠️

IT IS EMPHASISED THAT THE RIDING AUXILIARY SYSTEM CAN NOT CHANGE THE PHYSICAL LIMITS OF GRIP AND IS NOT A SUBSTITUTE FOR PROPER MANAGEMENT OF POWER, BOTH ON STRAIGHT STRETCHES AND IN TURNS. THEREFORE, IT IS RECOMMENDED TO ALWAYS USE THE VEHICLE WITH THE UTMOST CARE AND IN ACCORDANCE WITH THE REGULATIONS IN FORCE.

CAUTION

⚠️

AT LOW SPEED (LESS THAN 5 KM/H), THE ASR SYSTEM DOES NOT WORK. IT IS RECOMMENDED TO PAY PARTICULAR ATTENTION IN THE EVENT OF ACCELERATION FROM STANDSTILL IN CONDITIONS OF LOW GRIP, ESPECIALLY IN THE FIRST METRES.

N.B.
IN CASE OF ROADS FULL OF HOLES THERE MAY OCCUR BRIEF ACTIVATION OF THE ASR SYSTEM. THIS OCCURS UNDER NORMAL OPERATING CONDITIONS OF THE VEHICLE.

N.B.
THE DEVICE PREVENTS IMPRESSING ON THE REAR HIGH SPEED ROTATION WHEEL WITH THE VEHICLE ON THE CENTRE STAND. IT IS RECOMMENDED NOT TO INSIST WITH THE THROTTLE GRIP IN THIS PARTICULAR CONDITION.

CAUTION

⚠️

A POOR STATE OF MAINTENANCE OF THE TYRES CAN RESULT IN ABNORMAL OPERATION OF THE ASR SYSTEM. IN CASE OF REPEATED INTERVENTIONS OF THE ASR, EVEN ON ROAD SURFACES WITH GOOD GRIP OR SMALL THROTTLE OPENINGS, IT IS NECESSARY TO CHECK FOR WEAR AND/OR THE STATE OF INFLATION OF TYRES FIRST. IF THE PROBLEM PERSISTS, CONTACT AN AUTHORISED SERVICE CENTRE.

CAUTION

⚠️

⚠️

IN THE EVENT OF MALFUNCTION OF THE BATTERY, THE ABS - ASR SYSTEM TURNS OFF.

ASR SYSTEM CALIBRATION PROCEDURE.
In order to maintain the effectiveness of the ASR system following the replacement of one or both tyres a calibration procedure of the system must be performed as follows on a straight flat stretch of road. Please note that the request for activation of the procedure (steps 1 to 4) must be completed within 60 sec from ignition on the engine. • It is necessary that the diagnostic phase of the ASR systems and ABS is complete: for this purpose, after the key ON, ride a short distance above 5 km/h and wait for the flashing of the ABS warning light and EFI/ASR to stop.
Turn the ASR system off by pressing the button «1» on the handlebar and check that the ASR disabling warning light «2» is on.

Allow the engine to idle for at least 3 seconds.

Press the ASR on/off button «1» and one of the two brake levers simultaneously for at least 4 seconds. The activation of the procedure will be confirmed by turning on the EFI/ASR «2» warning light with a frequency of 2 flashes per second (2 Hz).

Accelerate to a constant speed of 30 to 40 km/h and maintain it for at least 7 to 8 seconds.

The end of the procedure will be indicated by the flashing EFI/ASR warning light «2».

Once the procedure is complete it is necessary to turn off the vehicle panel (key off) and wait 30 seconds before turning the panel on (key on).

In case of failure to complete the procedure within 2 minutes the EFI/ASR warning light «2» will stay on steady and the ASR will remain off until the panel is turned off (key off).

To restart the ASR it is necessary to turn on vehicle panel (key on).

It is however necessary to repeat the process until it succeeds.

### Rear brake calliper

#### Removal

- Remove the rear wheel.
- Remove the brake pad retention pin snap ring.
- Using a pin partially remove the brake pad retention pin.
- Remove the screws fixing the brake calliper to the crankcase then remove the brake calliper complete with pipe.
- Complete the extraction of the pad retention pin, the spring and the pads.

**N.B.**

*IF IT IS NECESSARY TO REPLACE OR SERVICE THE BRAKE CALLIPER, BEFORE REMOVING THE FITTINGS FIXING THE CALLIPER TO THE SUPPORT BRACKET, FIRST LOOSEN THE OIL HOSE FITTING AFTER HAVING EMPTIED THE SYSTEM OF THE CIRCUIT BEING EXAMINED.*

#### Refitting

- Follow the removal steps but in reverse order and tighten to the prescribed torque.