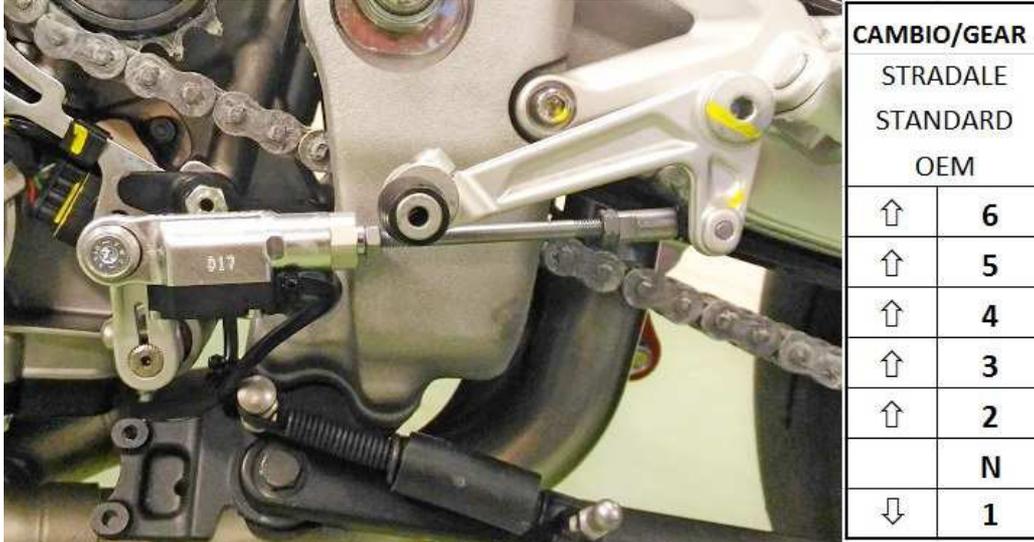


## 7 – REVERSING RACING GEAR

The standard edition bike comes with the transmission mounted for the road, as in photo ↴:



**IMPORTANT NOTES:** The sensor for the standard transmission only works one way, which is the following:

- In compression (when the shaft is pushed toward the sensor) to shift up
- In extension (when the shaft is pulled from the sensor) to shift down

If the transmission sensor is not mounted in the correct position (inverted relative to push and traction) the system that assists with shifting up and down will not work.

The sensor may be mounted with the black plastic portion facing either up or down. This will not create issues or affect how well the sensor works in any way.

That's why one must be careful if one plans on using a racing transmission (inverted), rather than the standard transmission. A special gear lever is available if the standard footpegs are used but a racing transmission is desired. The inverted transmission lever kit, code 2S001040, is available through the official Aprilia network (spare parts for accessories). The kit includes the material needed for inverting the transmission while using standard footpegs (photo ↴).



As you can see from the photo above, with the new gear lever mounted on the footpegs, the gear shaft connecting to the sensor is now raised compared to the fulcrum of the pilot footpeg, this way the transmission is reversed (racing), with the sensor still mounted in the correct position.

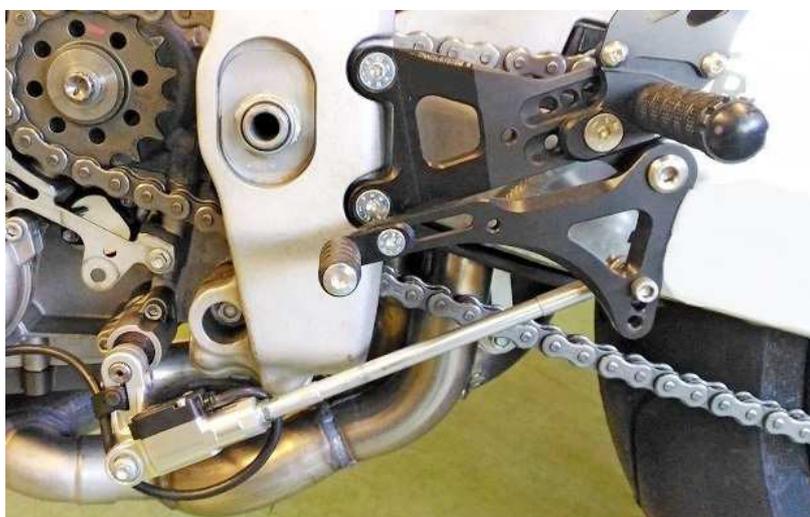
To order this piece from an aprilia dealer, the code and description is:

Q.	Code	Description
1	2S001040	RACING REVERSE GEAR KIT

Should you desire to mount a kit with adjustable footpegs, you will still need to use the scheme described above in order for the sensor to work properly (photo⇩).



The system illustrated in the photo above belongs to an aftermarket adjustable footpeg kit, which converts the transmission to the "racing" version, in a such a way that the sensor can work correctly. There are, however, several footpeg kits on the market that move the gearbox shaft to the lower part (under the footpeg), which inverts the fulcrum levers, on the engine gear lever and on the footpeg gear lever. This system achieves a "racing" conformation for the transmission, but the sensor does not respond correctly since it works the other way around (photo ⇩).



To use a footpeg kit like the one illustrated in the above photograph, the electric signal from the sensor will need to be inverted. Aprilia Racing has created a tail fairing adapter for that purpose, inverting the electric signal from the sensor. This tail fairing must be mounted between the connector for the transmission sensor and the connector for the engine wiring harness. Through this operation the transmission sensor will be inverted and will respond as follows:

- In compression (when the shaft is pushed toward the sensor) to shift down
- In extension (when the shaft is pulled from the sensor) to shift up

To order this piece in Aprilia Racing, the code and description is:

Q.	Code	Description
1	COE17074	CONNECTOR FOR GEAR SIGNAL INVERSION