

# installation instruction

## Kit 38420

### Models:

Aprilla RX, SX ab 2018 E4, Derbi Senda SM, R ab 2018 E4, Gilera RCR, SMT ab 2018

Improves the drivability and performance of the vehicle! (For sports purposes only)

### CONTENT :

- (A) Racing ECU (Speed limit at approx. 10 000 U/min)
- (B) exhaust manifold (without cat, secondary air connection and cross-section reduction)
- (C) Exhaust manifold gasket including fixing screws, nuts and washers
- (D) Components for carburettor: main nozzle 90, stand gas nozzle 35, mixing tube 208GA
- (E) Clamp for suction rubber / carburetor
- (F) Chain pinion 14 teeth
- (G) Spark plug BR10ES



**Attention:** After this modification, the vehicle no longer complies with the road traffic regulations and may therefore no longer be moved on public roads! The warranty and guarantee claim on the part of the vehicle manufacturer expires through this modification. The legal guardian and/or the customer must be informed about it..

**We would like to point out that it is absolutely necessary to use the individual components of the KIT only completely!**

## STEP-BY-STEP INSTRUCTIONS

### 1. Replacing the ECU (control unit)

Remove the left side panel. You will find the original ECU between the horn and the coolant reservoir. Replace it.



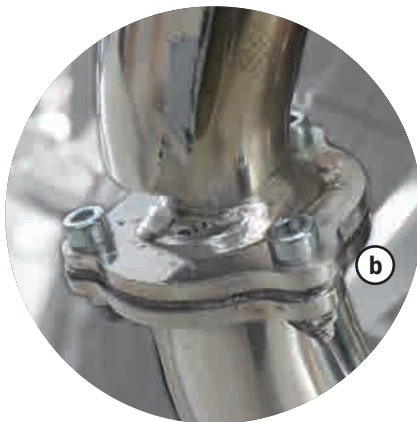
### 2. Exhaust manifold replacement

a) Disassemble the secondary air system air hose from the exhaust manifold.

b) Loosen the 3 screwed connections between the original exhaust manifold and exhaust bulb. (Note: The screws are welded to the nut. They may need a little more force to open.)

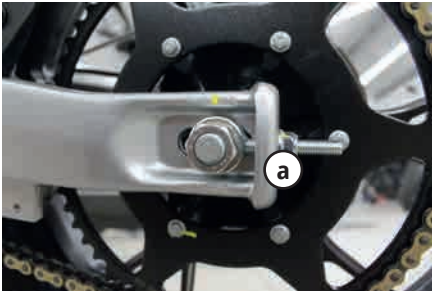
c) Loosen the elbow screws. (2 pieces) Now the exhaust manifold included in the KIT can be fitted with the supplied exhaust gasket, screws, nuts and washers. Please note: Torque 9 Nm.

**Note:** Unlike the original, the exhaust manifold supplied has no catalytic converter and no connection for the secondary air. The secondary air system may be completely **removed or blinded**.



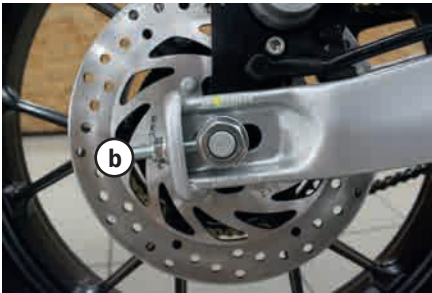
The cross section of the manifold can be reduced by using a throttle plate.





### 3. chain sprocket replacement

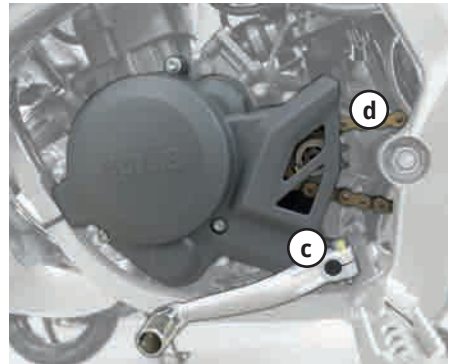
a) Loosen the nuts of the rear wheel axle.



b) Loosen the two chain tensioners to create the largest possible chain sag.

c) Now remove the gear lever and the sprocket cover.

d) Replace the original chain pinion with the new one.



e) Now reassemble the cover and the gear lever. When reassembling please make sure to restore the prescribed chain sag of 30 - 35mm. You can easily check this with a folding rule. In addition, you must tighten the rear wheel axle with the intended torque of 7 Nm.

### 4. Replacement of the spark plug

Now you must replace the original spark plug with the NGK BR10ES included in the KIT using a suitable spark plug wrench.

## 5. modification of the carburetor nozzle

- a) Remove the carburettor from the vehicle. Disconnect all connections and lines carefully. **Do not remove the original calibration plate (X) from the air inlet!**
- b) Remove the float chamber from the now removed carburettor.



The KIT contains a main nozzle (size 90), a stand-by gas nozzle (size 35) and a mixing tube with the designation 208GA.

**c)** Now you have to remove the mixing tube. It is inserted into the carburettor housing behind the main nozzle. It is recommended to warm up the carburetor housing if necessary. It can then be knocked out of the carburetor housing in the direction of the main nozzle by using a suitable breakthrough. Now the mixing tube contained in the kit can be carefully driven in again from the side of the main nozzle with a slightly larger breakthrough.



**d)** Then replace the main and idle nozzles with the supplied components. If necessary, it is worth cleaning the carburettor.

Now check all components again carefully for the correctness of the assembly and the screws for their strength.

**Congratulations!** Now the vehicle can be put back into operation. After the engine has warmed up, please readjust the carburettor setting of the idle air and idle screws.