

RACING FANTIC KIT INSTALLATION

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07466005



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XE 125 - Rev01 / 2020

This kit allows to configure the vehicle in “RACING” version. By making the following changes, the vehicle will no longer comply with the Highway Code; therefore it must be used exclusively in racetracks or areas closed to traffic.

THE CONVERSION FROM ROAD VERSION TO RACING VERSION WILL BE CARRIED OUT IN THREE STEPS.

1. The mechanical components necessary for the conversion will be replaced and/or removed.
2. The electrical system for the road version is removed and replaced with the RACING wiring, but the battery is NOT removed. Also the canister removed.
3. The battery is removed and the wiring harness of the Racing wiring is modified, so as to use only the position lights and to avoid that the engine switches off due to the absence of the battery.



STEP 1

CHAIN ADJUSTMENT PLATE

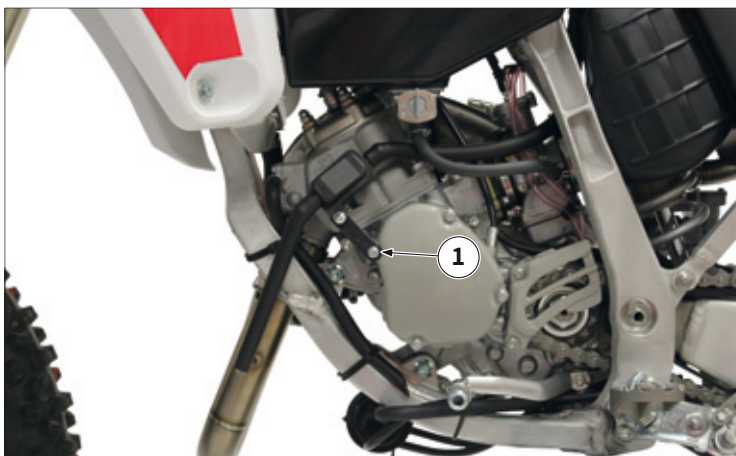
- Remove the rear wheel axle nut, its washer “1” and the lock block “2” from the vehicle



- Install the chain tensioner plate “1”, the washer “2” and the wheel axle nut provided in the kit.

Tightening torque:

Wheel axle nut: 125 Nm (12.5 m•kg, 90 ft•lb)



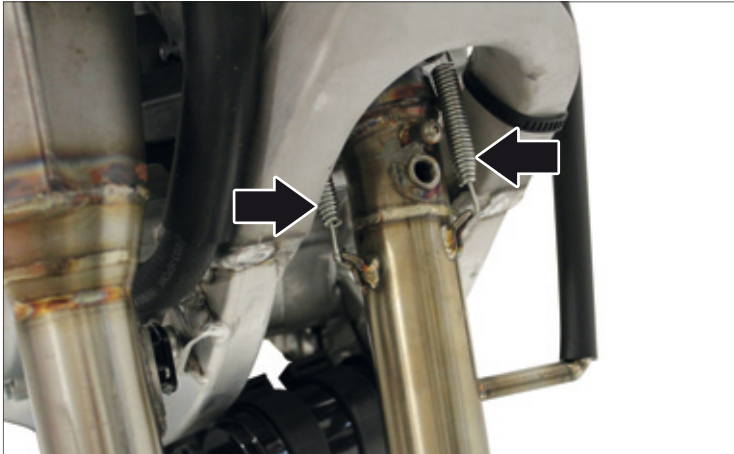
EXHAUST

- Remove the secondary air valve fastening screw “1”, then remove the assembly from the vehicle. Once the valve is removed, refit screw “1” on the vehicle.

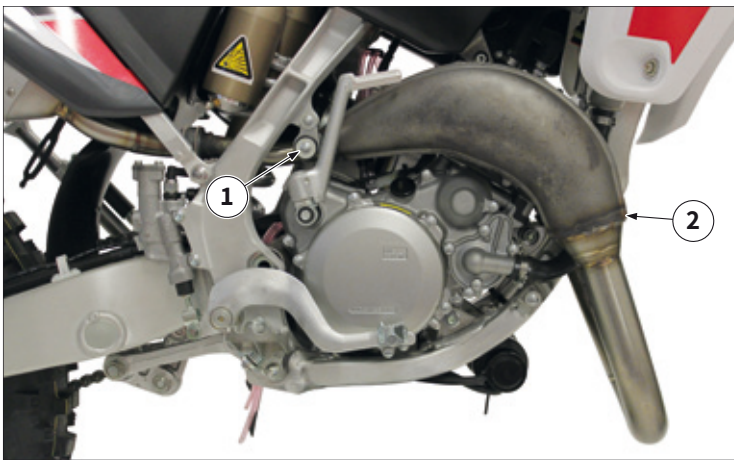
i The secondary air valve will NOT be used anymore, store it in a suitable place so that you can reassemble it in case you want to restore the vehicle to its original road version.

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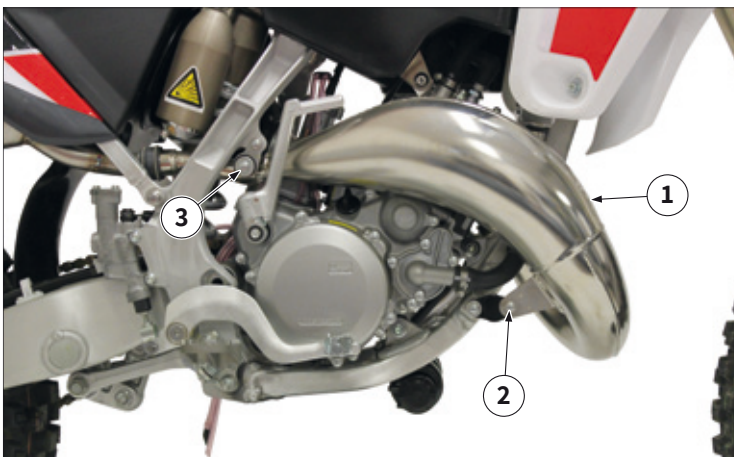
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- Using a spring pulling hook wrench, release the retaining springs from the exhaust manifold.

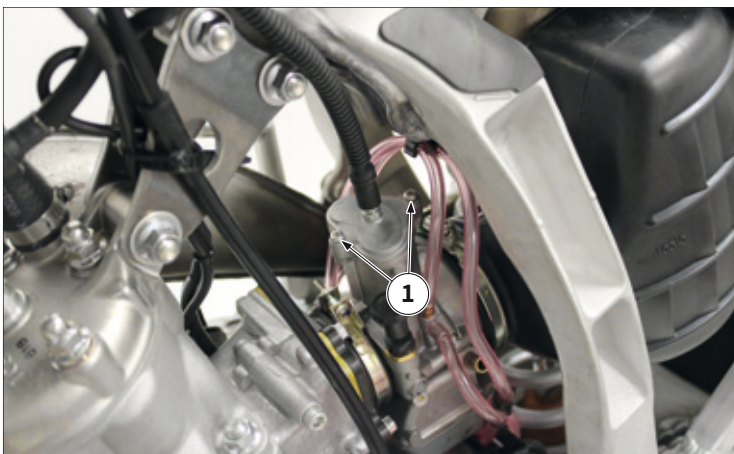


- Remove the fastening screw "1" and then remove the exhaust "2" from vehicle.



- Install the expansion exhaust "1" provided in the kit onto the vehicle and then tighten the fastening screws "2" and "3". Using a spring pulling hook wrench, attach the fastening springs to the exhaust manifold.

Tightening torque:
Fastening screws: 12 Nm (1.2 m•kg, 8.7 ft•lb)



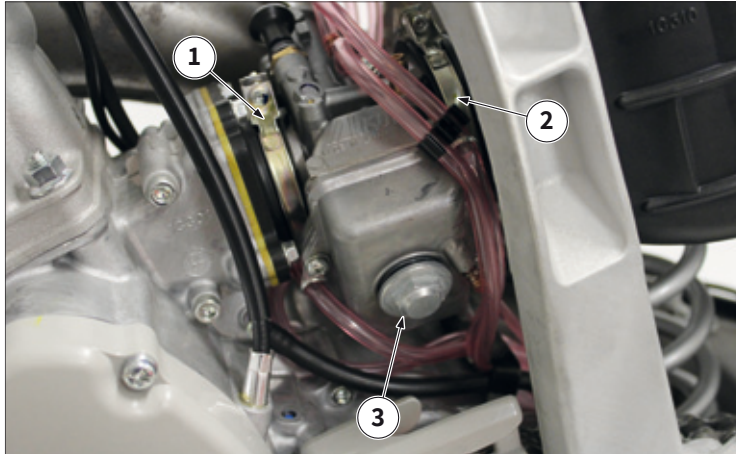
CARBURETTOR JETS

Before replacing the jets, close the petrol tap, place a cloth under the carburettor and, using the drain screw, empty the petrol tank.

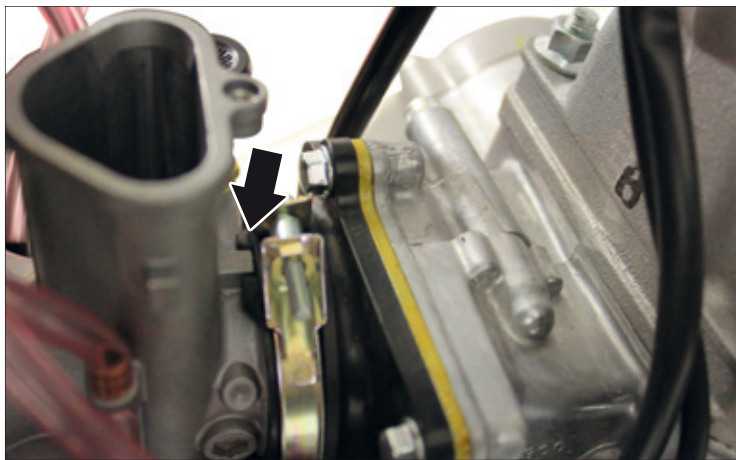
- Remove the petrol tank from the vehicle, unscrew the two screws "1" and remove the guillotine valve from the carburettor.

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- Loosen the clamps of intake manifold "1" and air filter "2", turn the carburettor clockwise. Remove the screw of the bowl "3".
- Replace the maximum jet "1" and minimum jet "2" with those supplied in the kit.
- Proceed with the reassembly

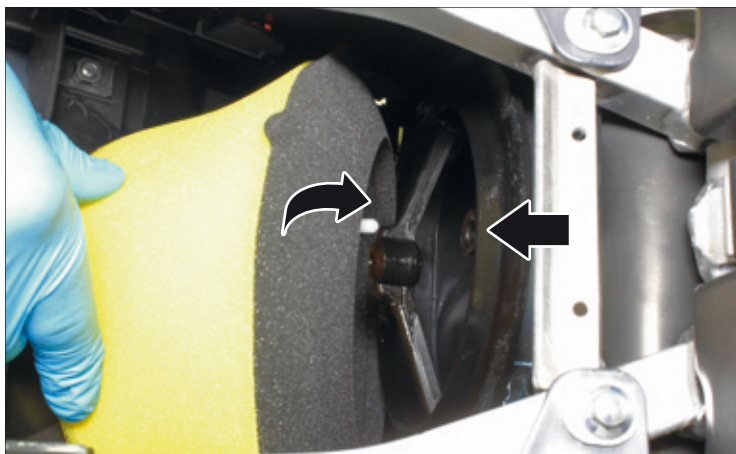


⚠ When reassembling, be careful to align the carburettor notch with the manifold housing.



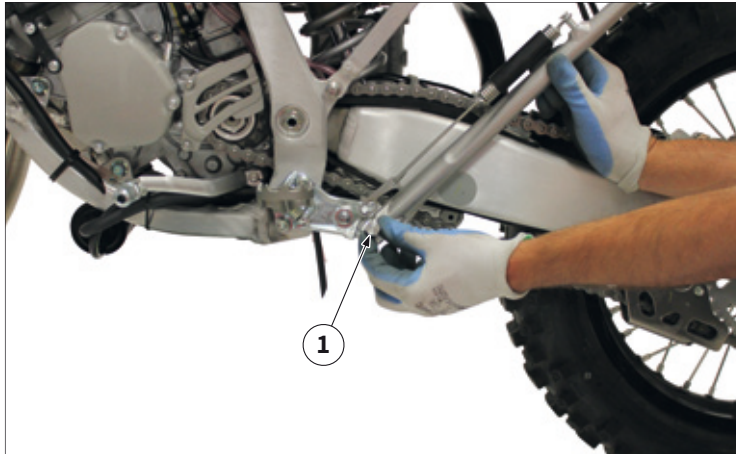
FILTER HOLDER

- Remove the air filter from the vehicle, then separate the holder from the sponge. Install the sponge on the "RACING" filter holder provided in the kit, taking care to match the rung in the holder with the hole in the sponge.



- Refit the air filter on the vehicle, taking care to match the rung of the holder with the hole in the filter casing.

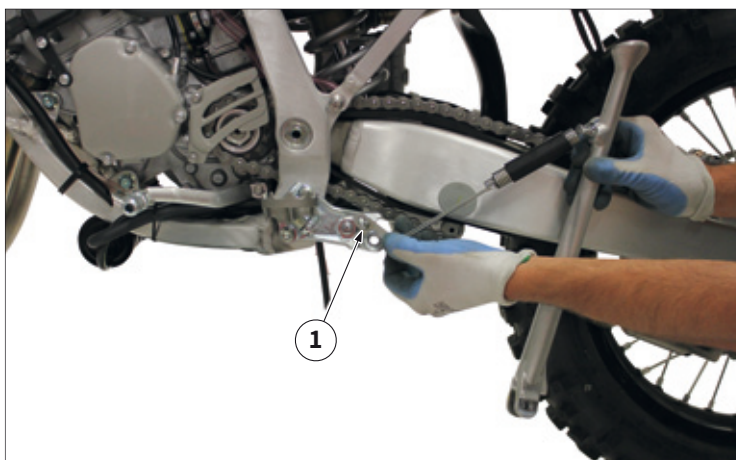
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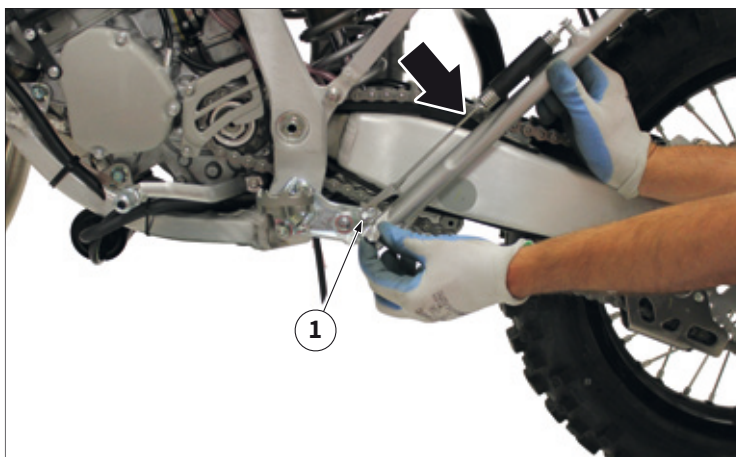
SIDE KICKSTAND

i According to the Highway Code, the vehicle kickstand closes automatically as soon as the motorcycle is lifted off the ground; therefore, in order to use the vehicle in RACING version, the pin and cam of the kickstand must be replaced with those supplied in the kit.

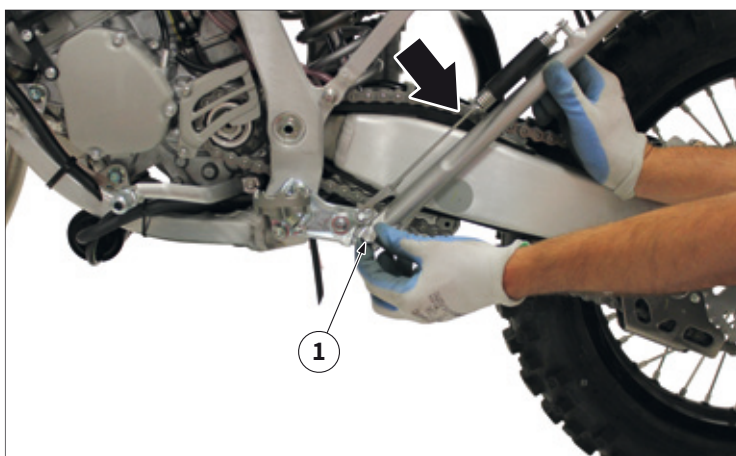
– Remove pin “1” from the kickstand.



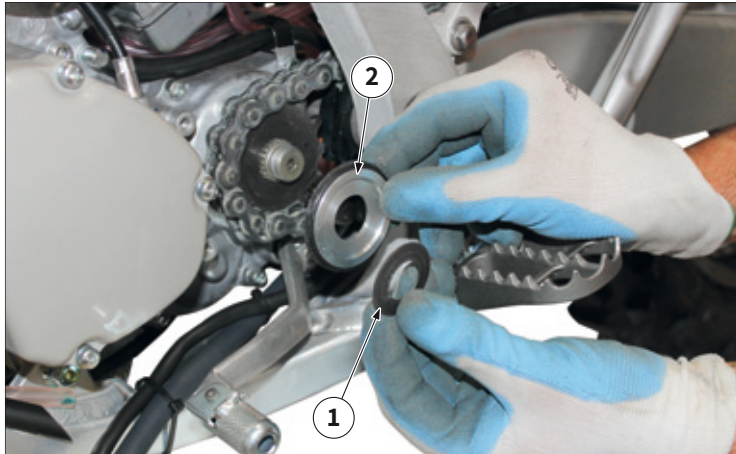
– Hold the kickstand, then remove the kickstand cam “1” from the support.



– Remove the springs from the kickstand, then remove cam “1” and replace it with the cam in the kit.

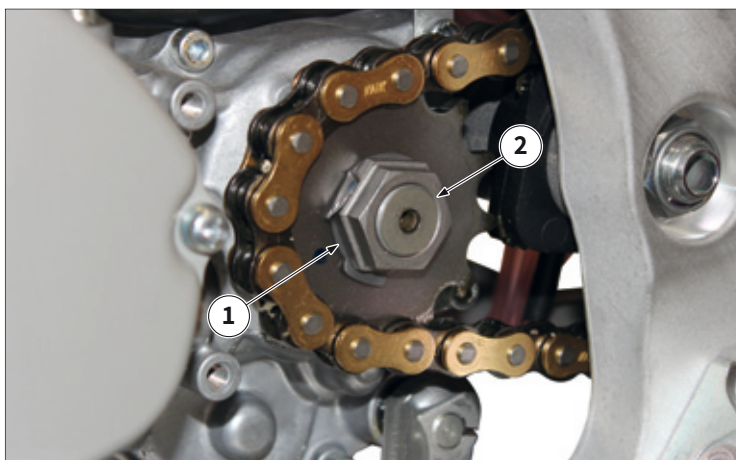


– Attach the spring/cam assembly to the kickstand, then reassemble all on the related support. Align the kickstand with the hole on the support, then install the pin “1” provided in the kit.



PINION NUT AND WASHER

- Unscrew the thin nut, then remove the disc spring “1” and special washer “2”.



- Install washer “1” and standard nut “2” provided in the kit. Tighten the nut to the specified torque, then rivet a tooth of the washer against a flat face of the nut.

 **Tightening torque:**
Pinion nut: 75 Nm (7.5 m•kg, 54 ft•lb)

SPROCKET

- Remove the rear wheel from the vehicle, then remove the Z46 rim of the original equipment.
- Install the Z50 sprocket provided in the kit. Tighten the nuts to the specified torque, following a cross pattern.
- Reassemble the wheel on the vehicle and adjust the chain clearance as specified.

 **Tightening torque:**
Sprocket nut: 42 Nm (4.2 m•kg, 30 ft•lb)

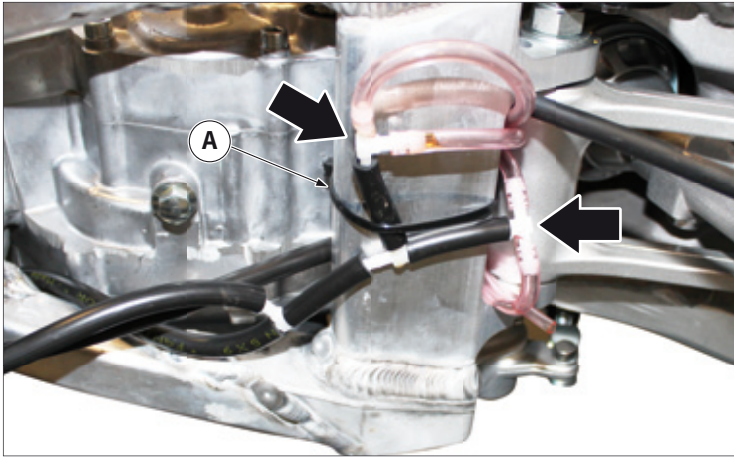


STEP 2

- Remove the vent tube from the tank cap and remove it from the vehicle by pulling it out from beneath.
- Install the vent tube, supplied in the kit, onto the tank cap and insert it into the steering sleeve.

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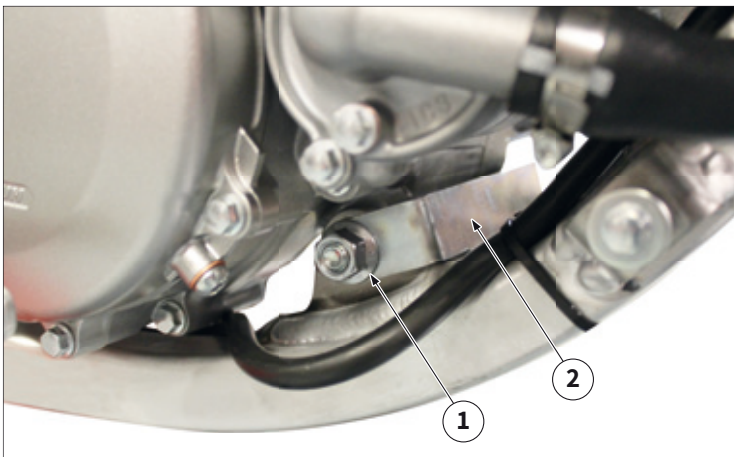


- Working underneath the vehicle, cut the clamp "A" and disconnect the carburettor vent tubes from the canister pipe T-fittings.

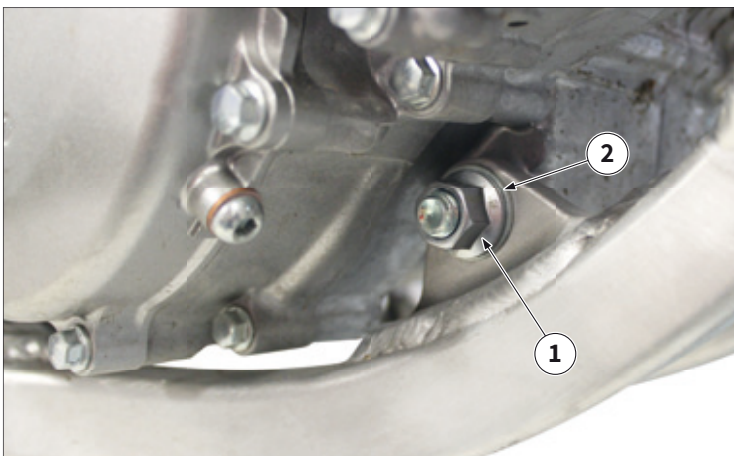
(i) At this point, all the canister tubes will be on the ground, no longer connected to vehicle components.



- Cut the canister clamp and remove the canister/tube assembly from the related support bracket.



- Unscrew the nut "1" and remove the lower engine pin.
- Remove the canister support bracket "2" from the vehicle.



- Reinstall the lower engine pin, the washer "2" supplied in the kit and the nut "1". Tighten the nut to the specified torque.

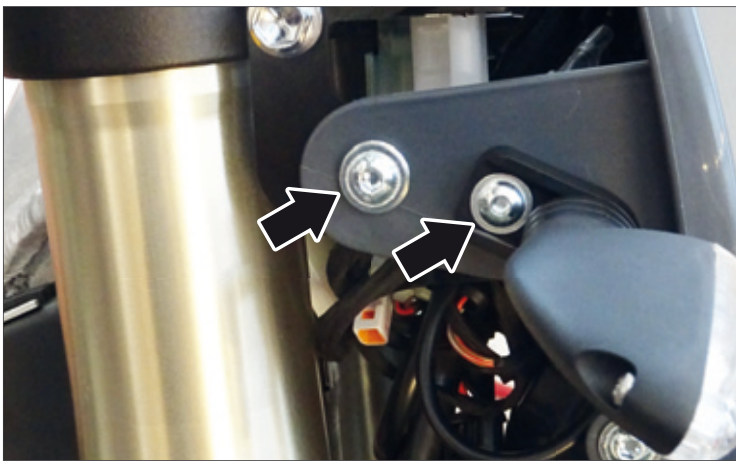
Tightening torque:
Motor pivot nut: 64 Nm (6.4 m•kg, 46 ft•lb)

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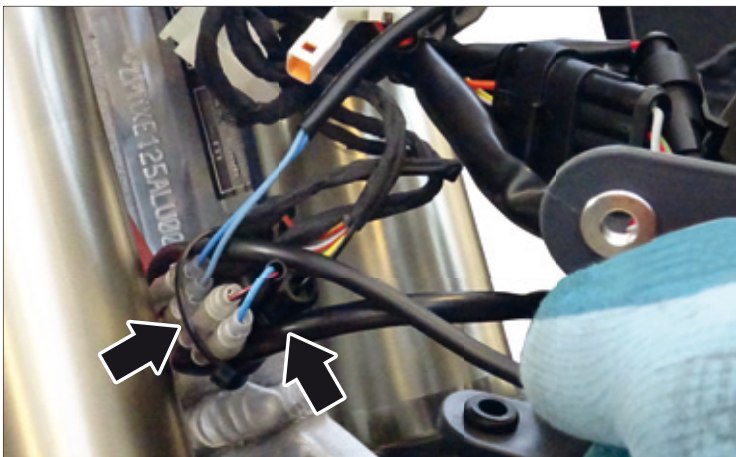
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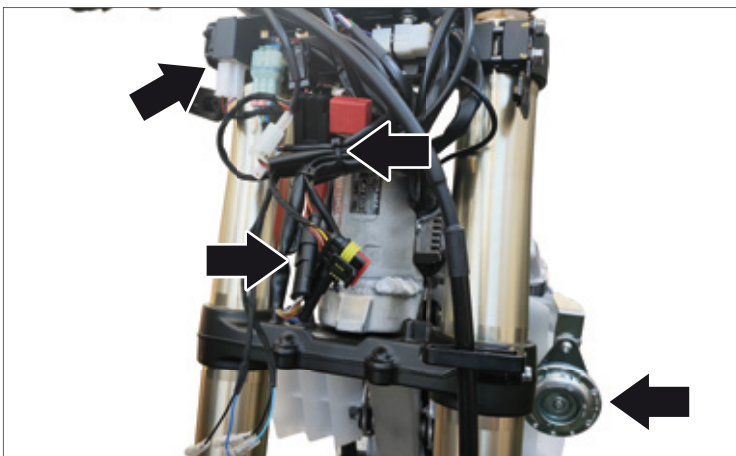
- Remove the seat, side conveyors, tank and left number plate.



- Disconnect the battery.
- Unscrew the fastening screws of the front number plate and of the direction indicators.



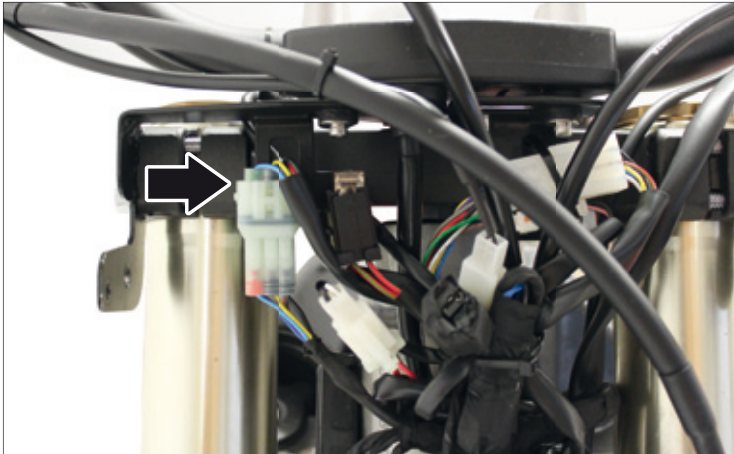
- Disconnect the light and direction indicators connectors and then remove the plate including direction indicators from the vehicle.



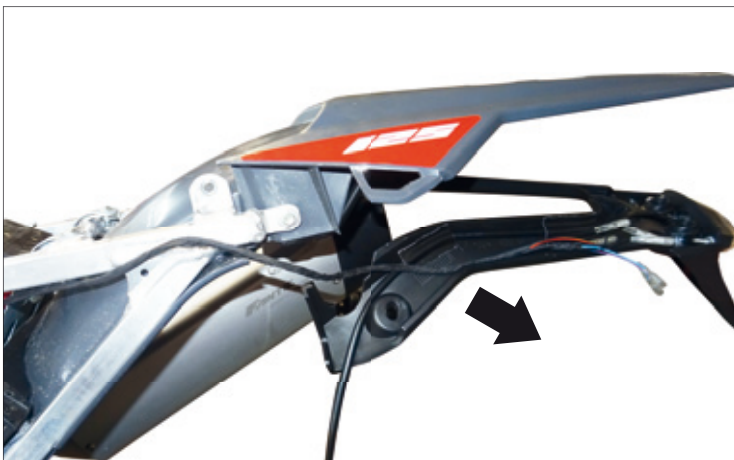
- Cut the clamps that collect the connectors and cables, disconnect the connectors related to the horn, intermittent light and left stalk, then remove the devices from the vehicle.

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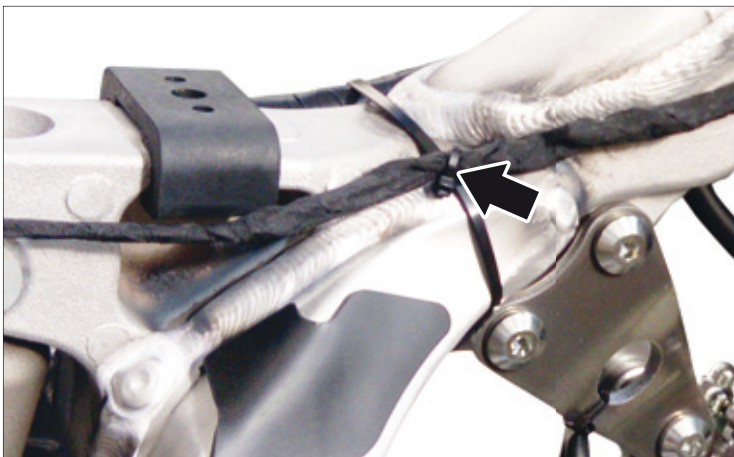


- Remove the interface connector from the support bracket.
- Disconnect the wiring connector.



- Remove the licence plate holder fastening screws fixed under the rear mudguard.
- Disconnect the wirings related to the direction indicators and tail light and then remove the support (and number plate holder) from the vehicle.
- Remove the number plate holder and direction indicators from the support, then reassemble the support on the vehicle.

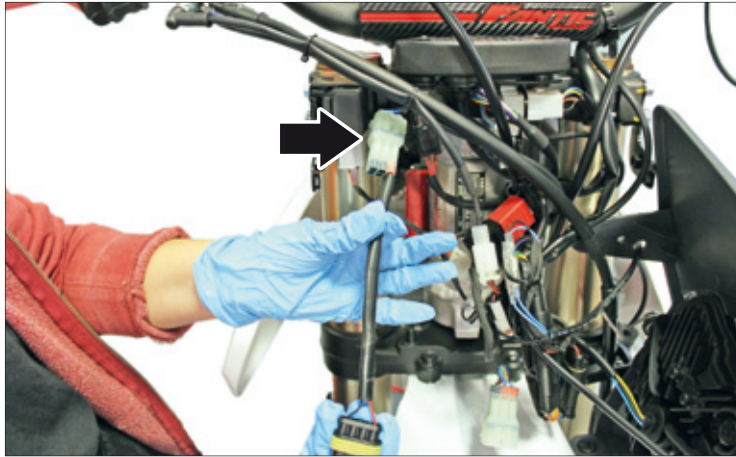
⚠ Reconnect the rear light wiring to the vehicle wiring.



- Remove the direction indicators wirings until they come out of the filter casing (from the engine side).
- Working on the right side of the vehicle, remove the clamp that fastens the auxiliary wiring to the central clamp on the vehicle frame.
- Install the left lateral number plate on the vehicle.



- Remove the cable gland from the frame, then remove the road version wiring from the vehicle taking care not to damage it.
- Once the road wiring has been removed, reposition the cable gland in its original position.



- Connect the wiring harness connector, supplied in the kit, to the vehicle interface connector. Then fasten the connectors to the instrument support bracket.
- Reassemble the wirings, which have been disconnected at the beginning of the procedure, using one or more clamps.

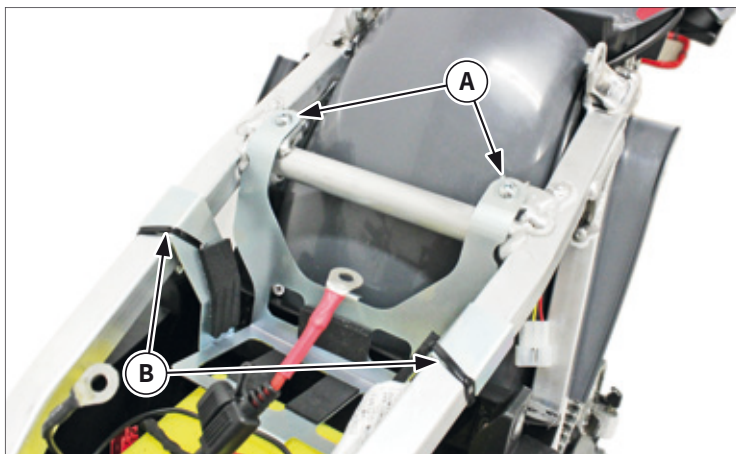
- Connect the wiring harness to the headlight, then reassemble the front number plate, without direction indicators, on the vehicle.

Fasten the number plate using the fastening screws previously removed from the direction indicators.

- Reconnect the battery.
- Refit the tank, conveyors and seat.

STEP 3

The operations described in this step make it possible to remove the battery from the vehicle by modifying the wiring harness supplied in the kit, so as to enable the position lights only. The modification of the wiring harness, if performed following the instructions below, is reversible. It is therefore possible to restore the wiring harness to the initial condition.



- Remove the seat and the side number plate tables.
- Disconnect the battery and remove it from the vehicle.
- Remove the two screws "A" and cut the clamps "B" securing the battery holder, then remove it from the vehicle.

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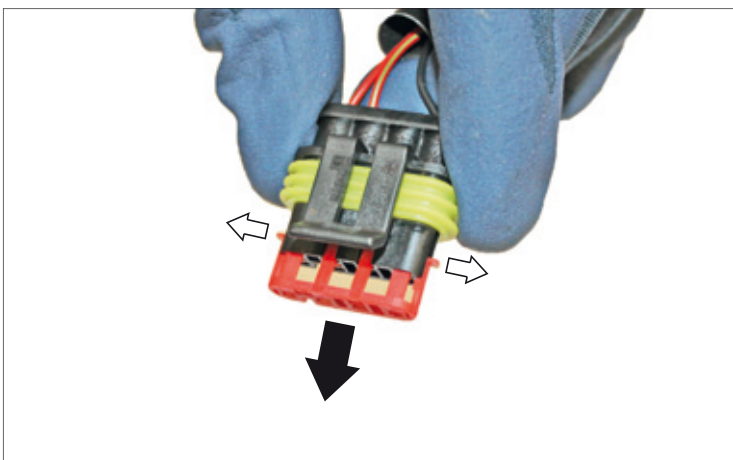
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- Insulate the 2 battery cables with insulating tape and fix them firmly inside the filter casing.

⚠ Be very careful and insulate the battery cables as well as possible. If the positive cable (red) is shorted, either with the black cable or the vehicle frame, the engine will switch off.

- Reassemble the seat and the side number plate tables.

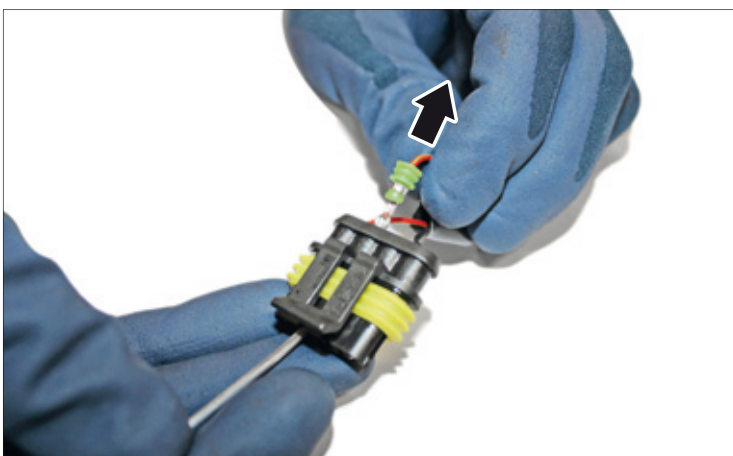


- Remove the connector protection (headlight side) of the wiring harness.



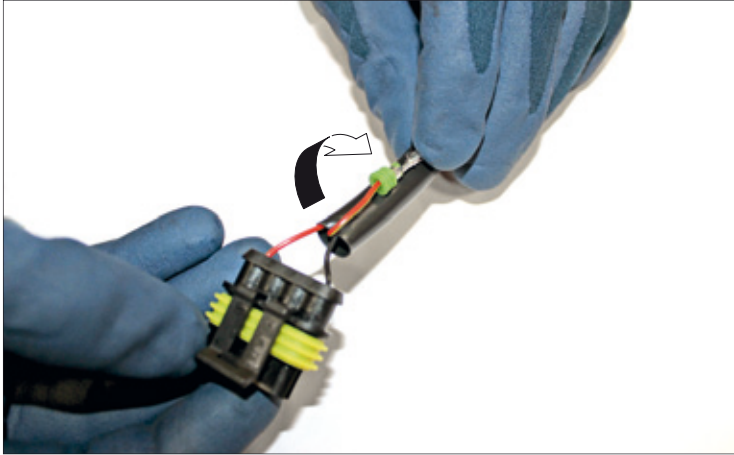
- Using a tool with a fine tip, release the fastening tab of the low beam light cable (pos.2) to the connector.

ⓘ To remove the cable from the connector, press the tab using the tool and simultaneously remove the cable.



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- Once the cable has been removed, bend it onto the wiring harness.



- Fasten the cable to the wiring harness with insulating tape and cover it completely in order to insulate it.

- Reassemble the protection, previously removed, on the connector located on the headlight side.
- Install the wiring harness on the vehicle, as described in Step 2.