

KTM 690 2019+ aux. tank - Installation manual

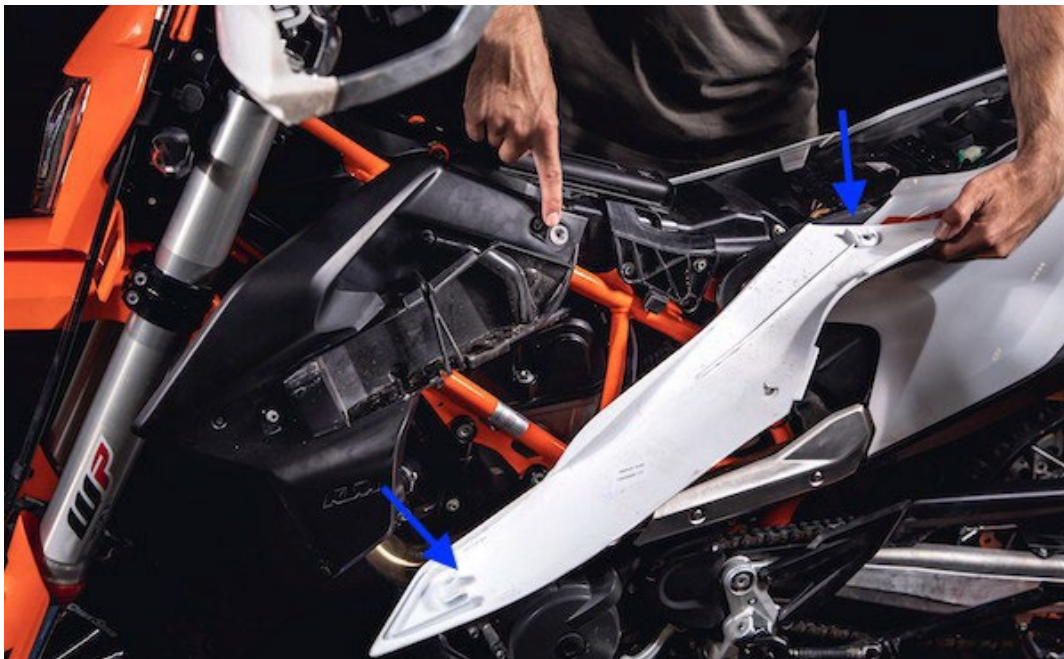
Thank you for purchasing the KTM 690 auxiliary tank from RADE/GARAGE. The installation is straight forward, a but time consuming (up to 3 -4 hours). Ideally drain the main tank the day before.

1/ Remove the OEM side panels

a/ Remove the seat. The panels are held by pins so you must first push out in the area of my thumbs as in the picture.



b/ There are also two plastics hooks so carefully lift and slide out forward.



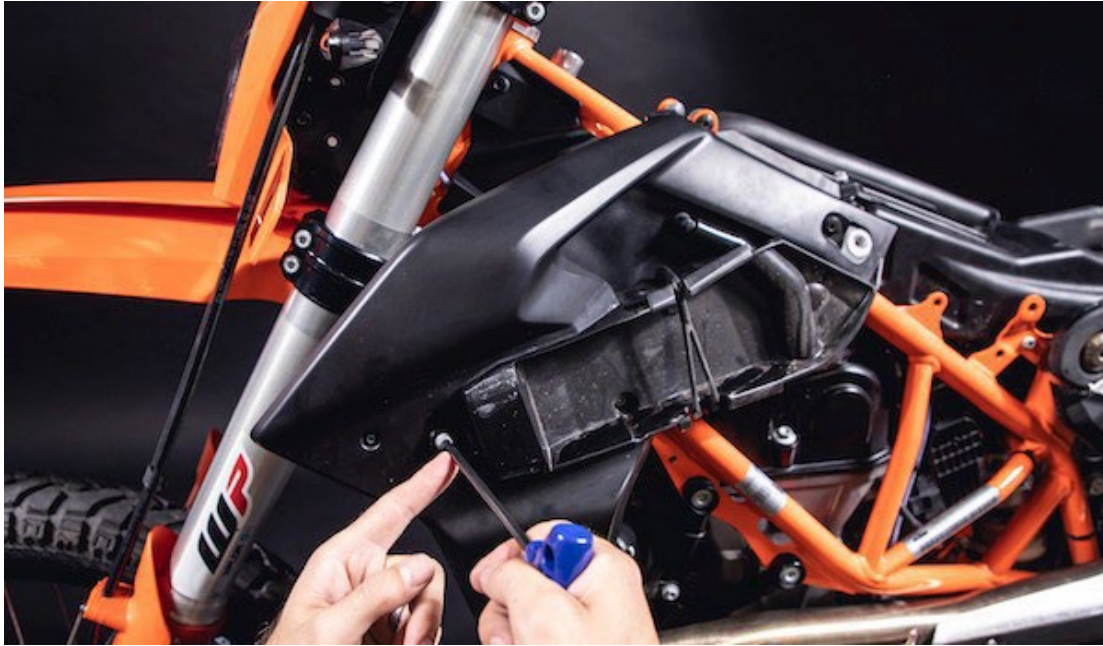
c/ Now take a larger flathead screwdriver and lift the ignition cover. It is held also by two pins.



d/ Remove the plastic seat support. If you wish to reuse these supports you will need to modify



e/ Remove the black side panels.



2/ Remove the OEM airbox

a/ Start with the seat locks



b/ Next remove the four bolts holding the OEM airbox. Note: on the right side the access to the front bolt is hidden under the small radiator. Therefore, you have to remove the radiator first.

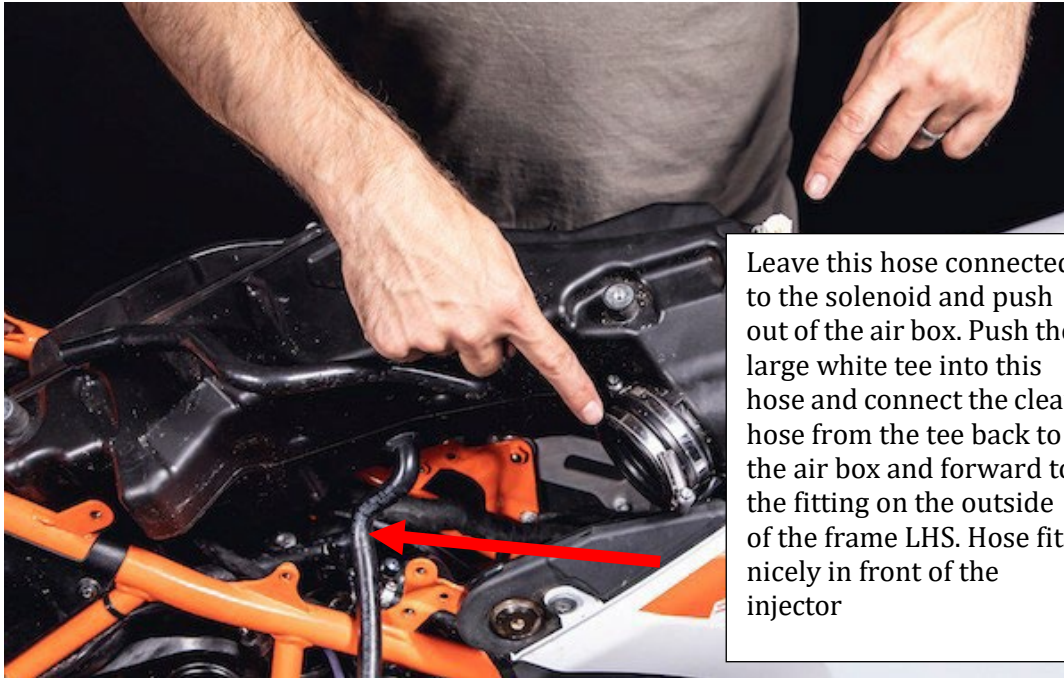


c/ On the left side of the bike... loose the sleeve holding the air box flange. Note, there are two sleeves – loose the one closer to the engine! Then take again big flathead screwdriver and push the flange out of the engine suction neck and remove the air box.



Note: It will hang on two tubes... one from left and second from down right. Disconnect them.

d/ Now take out the OEM air box. Remove the temperature sensor holder and take out the original flange. You will need it for the small air box.



Leave this hose connected to the solenoid and push out of the air box. Push the large white tee into this hose and connect the clear hose from the tee back to the air box and forward to the fitting on the outside of the frame LHS. Hose fits nicely in front of the injector

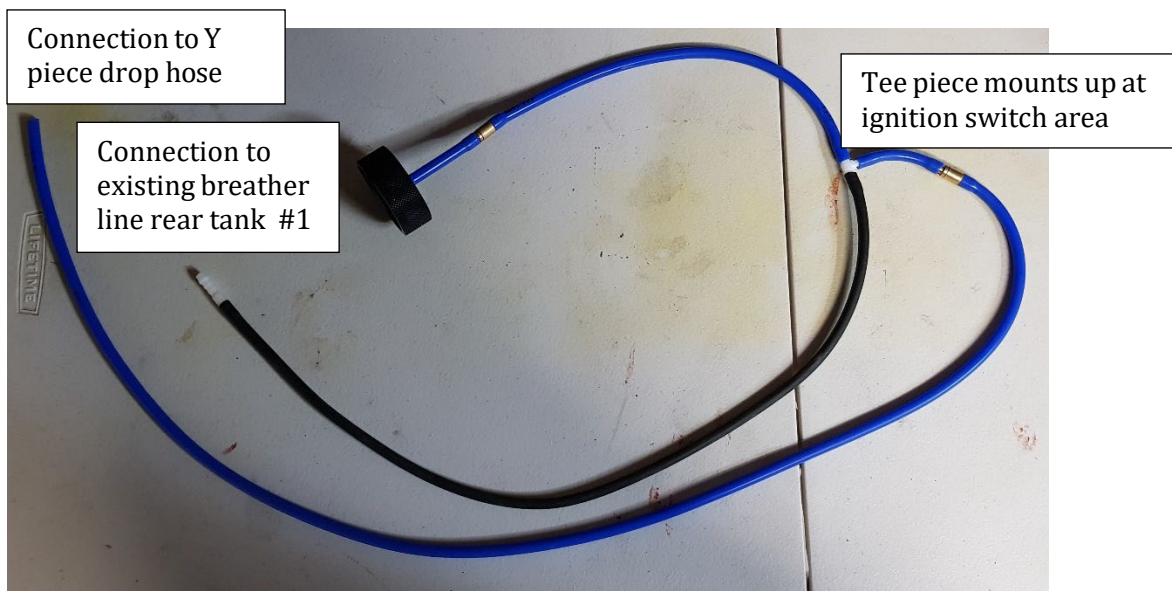
3/ Prepare the small air box

a/ Use the OEM screws to mount the temperature sensor holder to the small air box



Before you go any further read the next pages or look at video on breather hoses for tanks as this is the best time to fit these
<https://youtu.be/OJJXaaHY4BA>

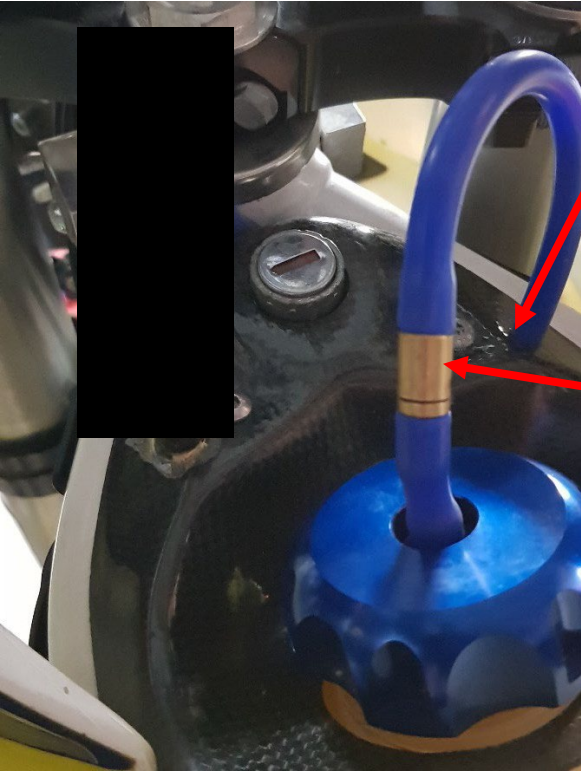
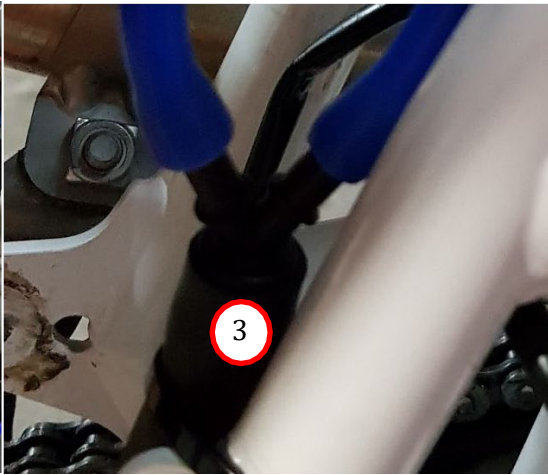
Fuel Tank Breather Hoses



- Brass breather/spinners not used.
- Ensure hoses are not kinked or tied too tight clamping off
- Hoses can be shorten as required

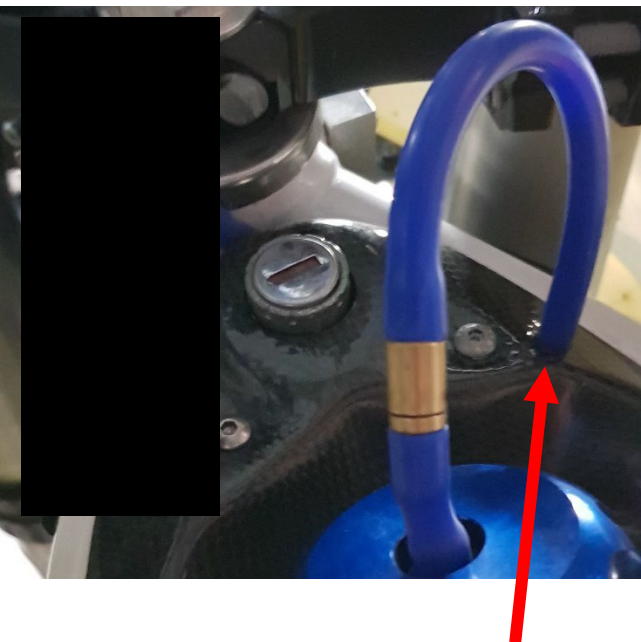
Cut hose from rear tank breather too Y piece about 60-70mm from Y #3. Take connection #1 and connect to hose from rear tank you have cut off Y piece previously.

Connect hose #2 too Y piece hose that has been previously cut



Drill 8mm holes in carbon cover or you can run hole through gap at headstock

Not used



requires drilling 1x 8mm holes into carbon cover or you can run hole through gap at headstock



This side of Y piece stays connected to charcoal canister

You Tube video for Breather hoses

<https://youtu.be/OJJXaaHY4BA>

Congratulation! The installation is finished and you can start enjoying your extended fuel range ©

Thanks again for your purchase. If you like our products, post on Facebook in your favorite group or wall and tag us!

These instructions have been modified by Adventure Bike Components to suit Australian customers. Rade Garage take no responsibility for changes to these instructions.

b/ Squeeze the original flange as in the picture and insert it into the small air box.



c/ Attach the pink vent tube and then fit the small airbox back on the engine suction neck.

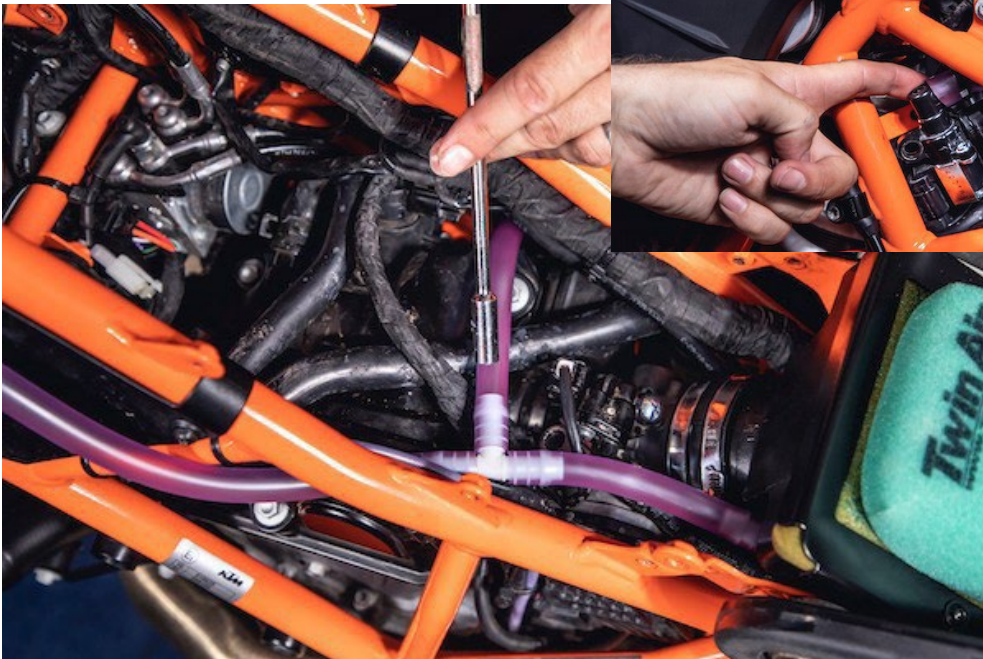


Use a cable tie on these hose ends to prevent them coming off. This hose goes to the TEE

d/ Use the cage and frame to mount the foam filter (ensure it is pre-oiled). New Air box is single bolt

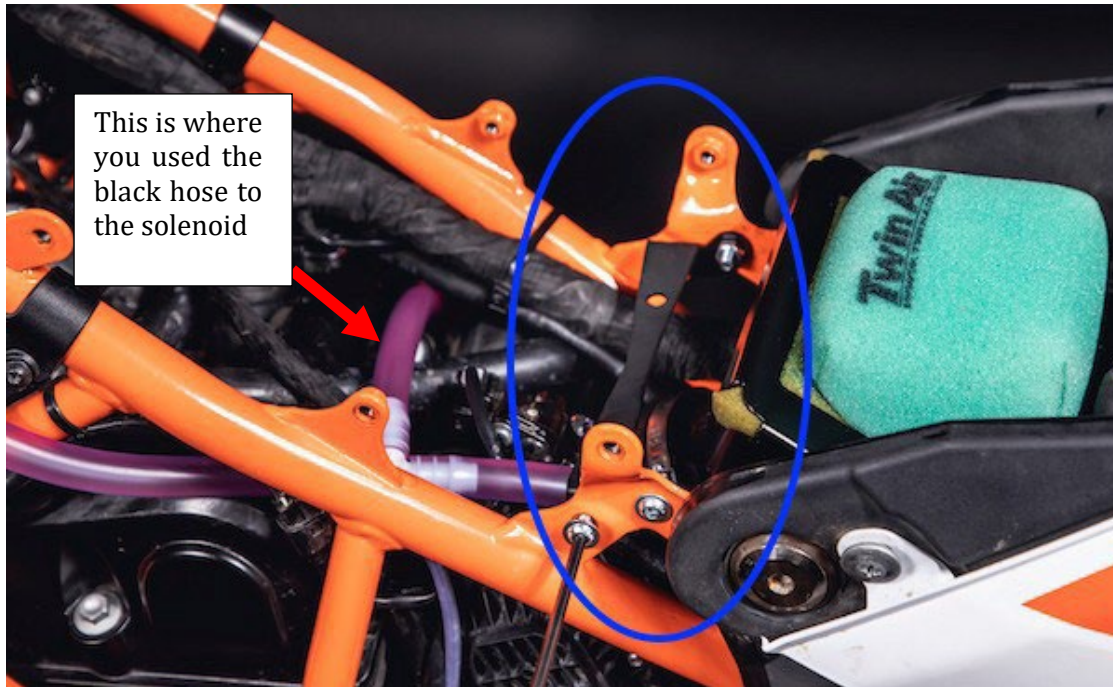


e/ Cut the vent tube and insert the T-connector and line one tube to the right side down to SAS.

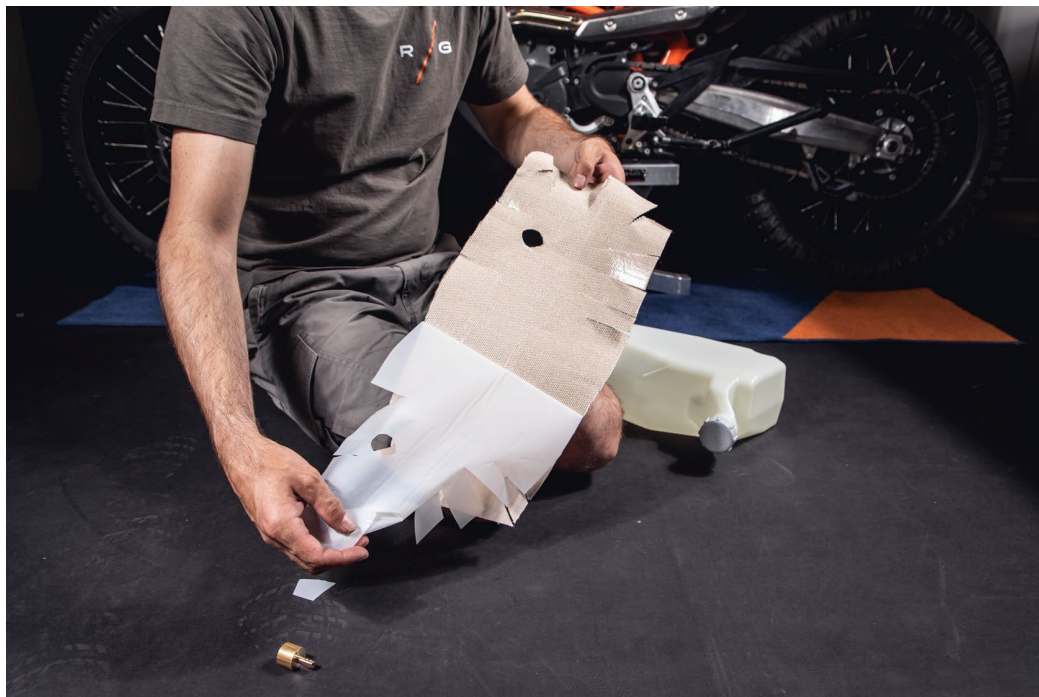


4/ Prepare and fit the tank

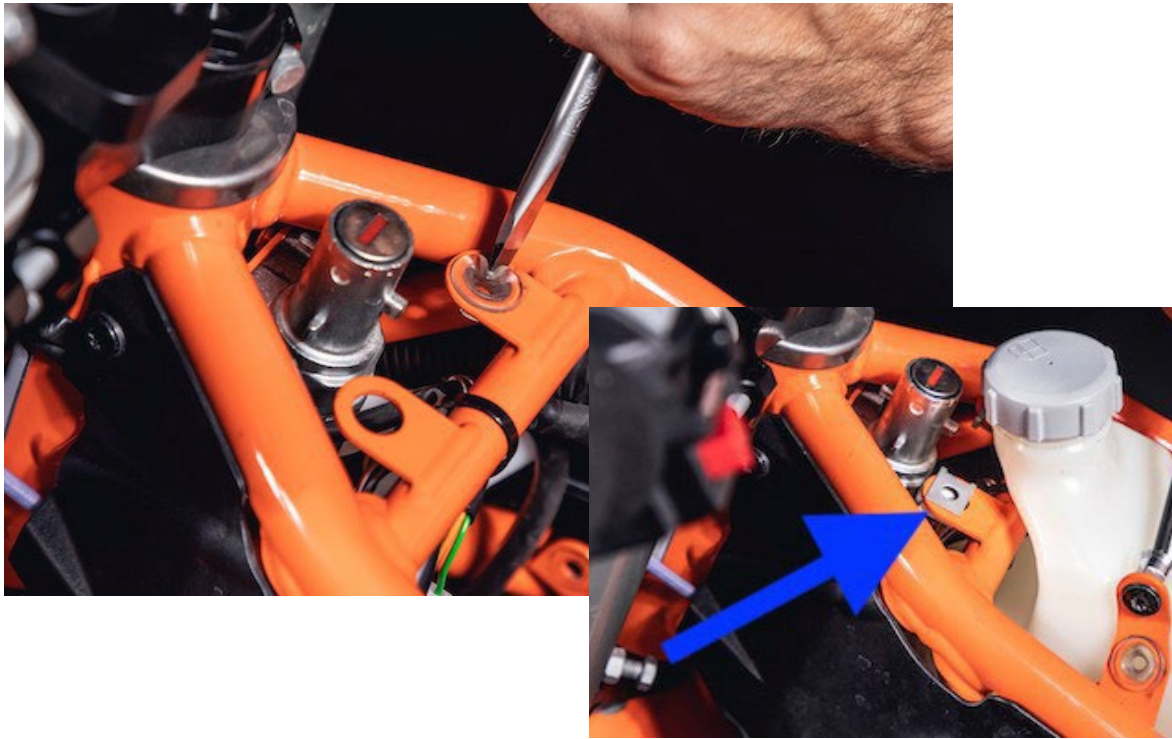
a/ Start with mounting the bracket. Make sure you mount it as in the picture! Two bolts and nuts hold the tank and two bolts holds it in the position.



b/ Install the heat shield from ThermoTec on the tank. For easier installation you get the sticker in 2-3 pieces.



c/ Remove the OEM grommets and use the supplied threat inserts instead.

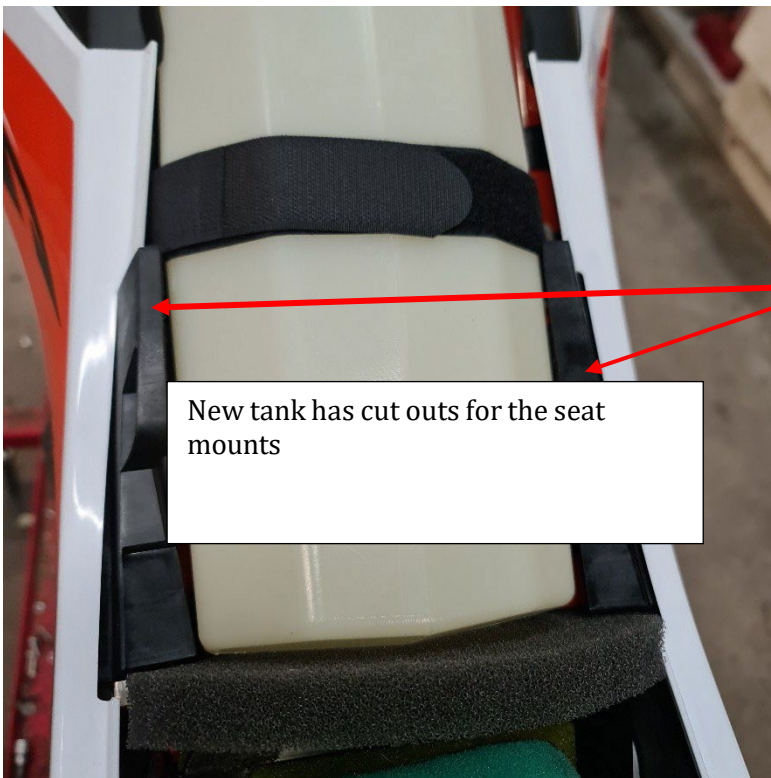


d/ Now place in the tank. Before you start make sure you lined correctly the fuel line to the ride side of the bike... (see picture below – you want to avoid the fuel line being squeezed)

In front the tank sits on the diagonal frame tube and in the back on the mounted bracket.



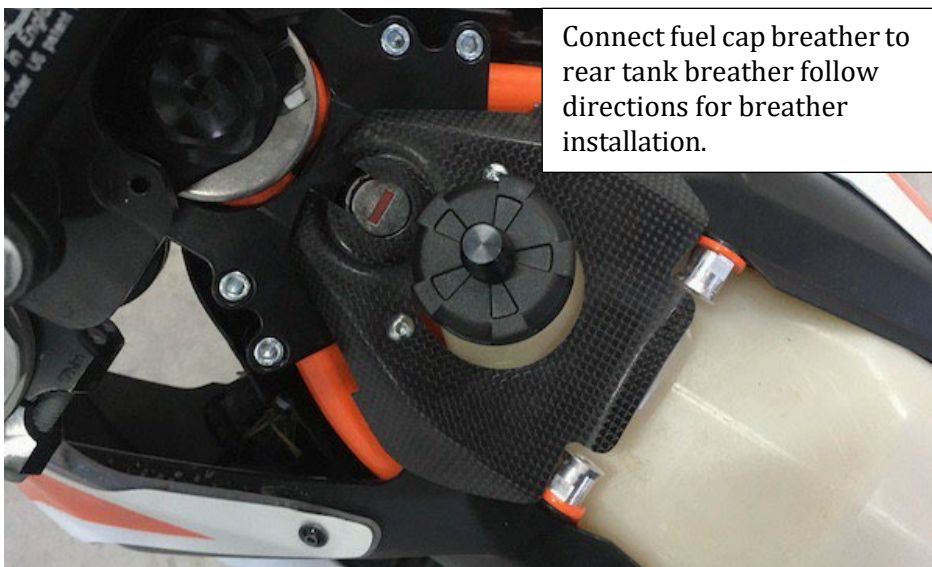
e/ To secure the tank, prepare the Velcro strap. Wrap it around the frame, go over the tank, under the frame on the other side and press the tank down to the frame and bracket, secure the Velcro.



Seat mounts

New tank has cut outs for the seat mounts

f/ Mount the carbon cover with M5x40 bolts



Connect fuel cap breather to rear tank breather follow directions for breather installation.

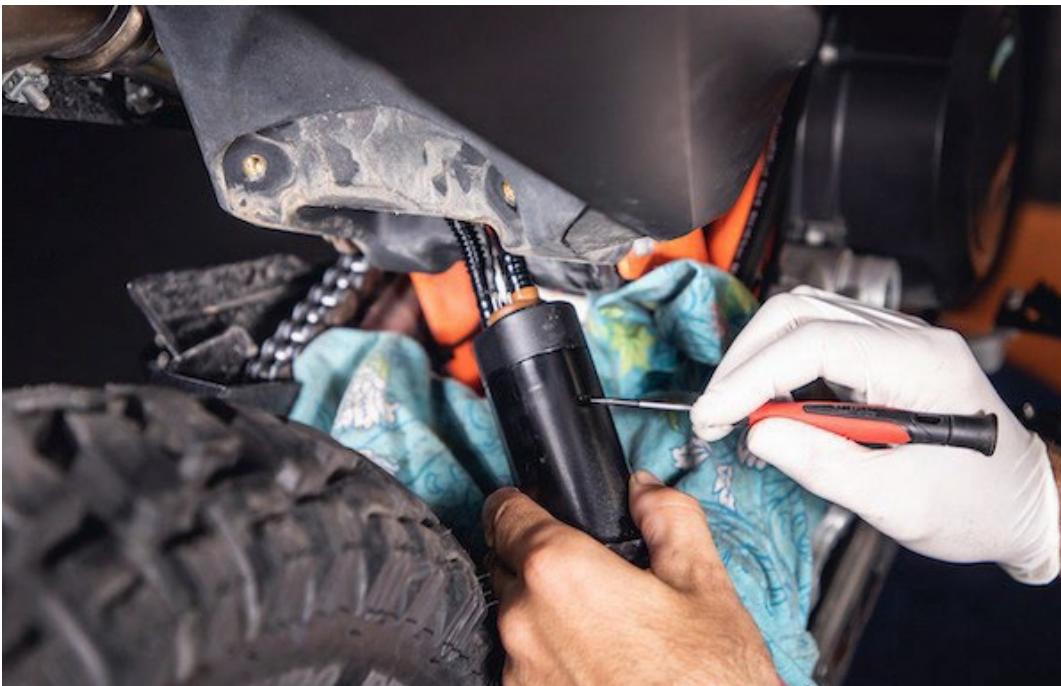
5/ Connect the tanks

a/ Remove the mudguard only. The wheel can stay.



b/ Take out the OEM fuel pump. **NOTE:** be careful when taking it out, because it hangs on many cables and you don't want to damage them. Also a small amount of gas may spill out, have a rag ready.

When you get it out, use small screw driver to unlock the plastic cover.



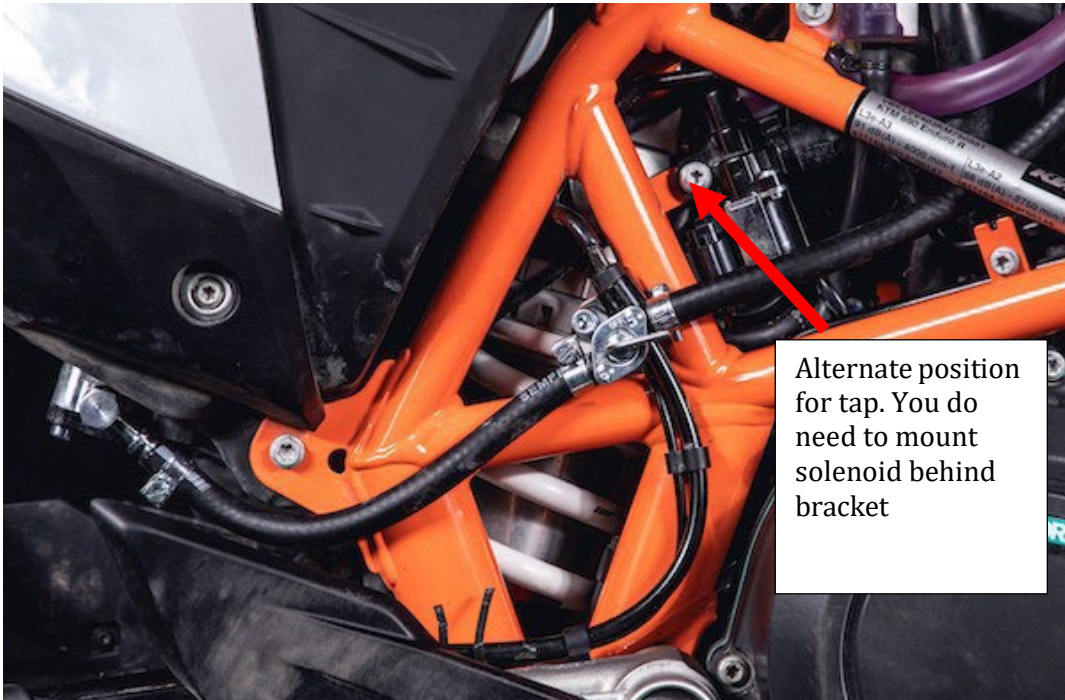
c/ Against the spacer outflow drill a hole diameter 4-5mm#1. Drill a second hole in the fuel pump cover 5mm above top edge of fuel transfer adapter in the forward facing edge. Before you insert the spacer put the fuel tube on the banjo. It is easier to do when removed. But do NOT tighten the banjo bolt yet!



d/ Bolt on the spacer with supplied bolts. Be careful to don't destroy the threads in your tank. When it is done, put back the mud guard.



e/ Use supplied bolt and spacer to mount the fuel on/off valve.



Alternate position for tap. You do need to mount solenoid behind bracket



Tap can be mounted off the bolt by using longer bolt and spacer provided and putting solenoid at rear of bracket

f/ Now you can tighten the banjo bolt.



Alternate position for fuel tap . move solenoid to rear of bracket and mount tap on front