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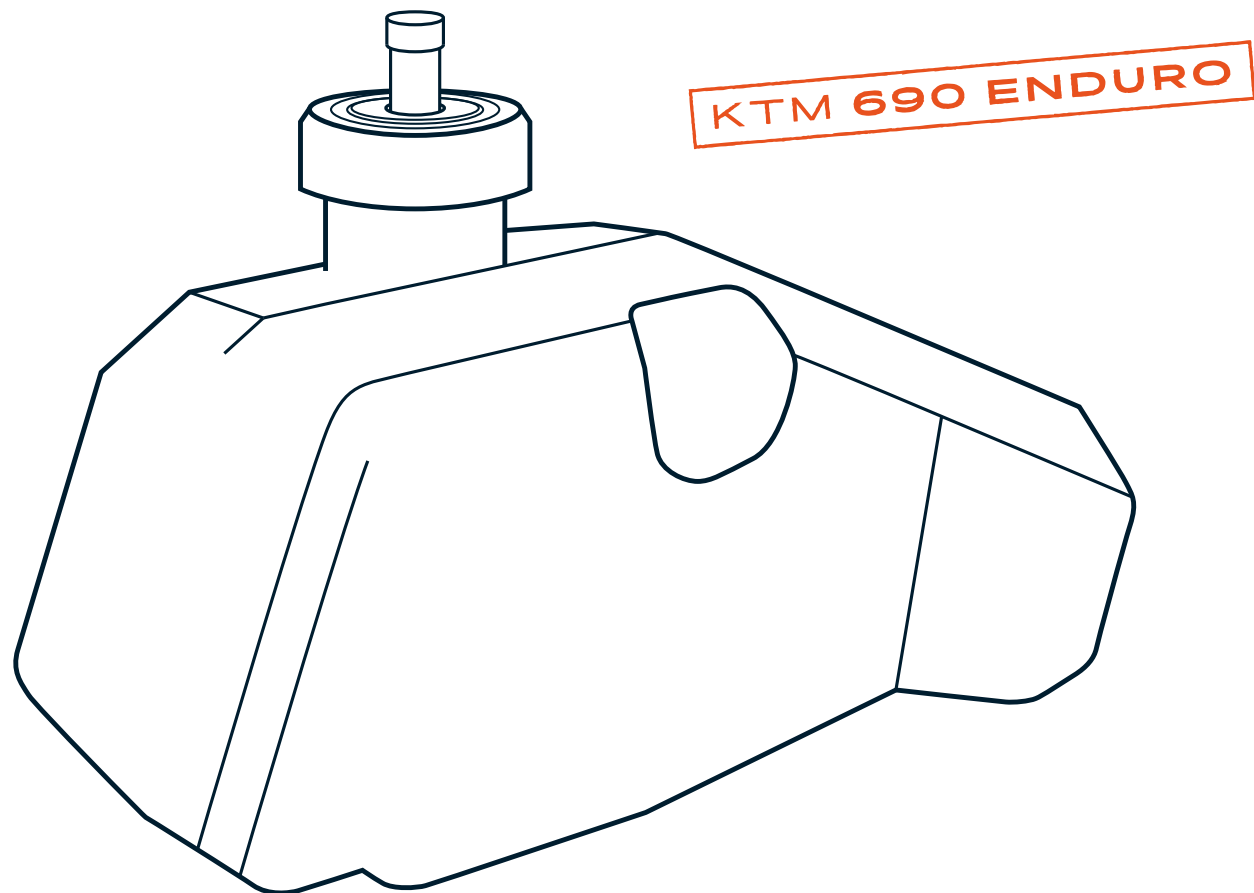
RADEGARAGE.COM



**KTM 690 ENDURO**

## AUXILARY TANK INSTALLATION INSTRUCTIONS

MADE BY ENTHUSIASTS



## DEAR MOTORCYCLE ENTHUSIASTS AND RADE GARAGE FANS

Thank you for buying Rade Garage Auxiliary Tank KTM 690. Before you start enjoying the extra range of your bike, please read the following instructions. Please note, that to complete the installation you'll need approximately 2–3 hours. The Kit is prepared so that only one pair of hands will be needed. Have fun and enjoy your “new” bike!



# 1.

At first have a look, what all you get in your Rade Garage box.

- ① Pre-oiled foam air filter
- ② Carbon cover
- ③ T-connection
- ④ Tank + fuel cap & outflow
- ⑤ Small airbox
- ⑥ Petcock
- ⑦ Fuel & vent tubes & 4 × hose clamps
- ⑧ Vent cap
- ⑨ Velcro strap
- ⑩ OEM tank connection
- ⑪ Filter cage & frame
- ⑫ Tank bracket

## TIP:

Before you begin, just ride up the OEM tank empty.

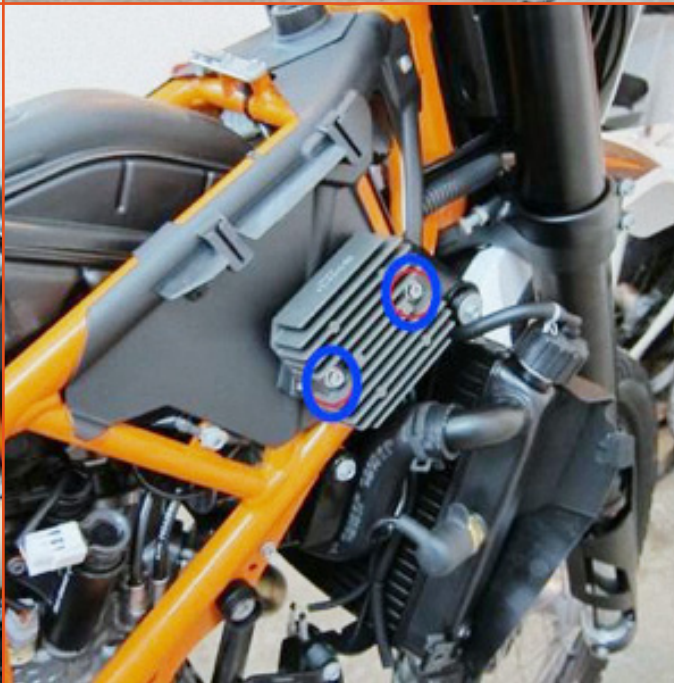




## 2.

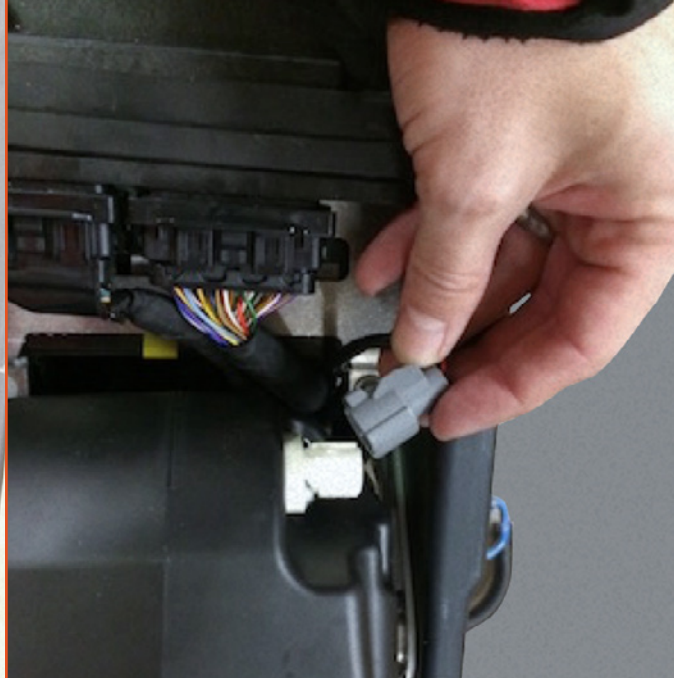
Remove the seat, side panels and take out the airbox.

- Remove the seat and the seat holder first.
- Remove both side panels.
- 2 bolts from each side and then hook up in the direction of the arrow.

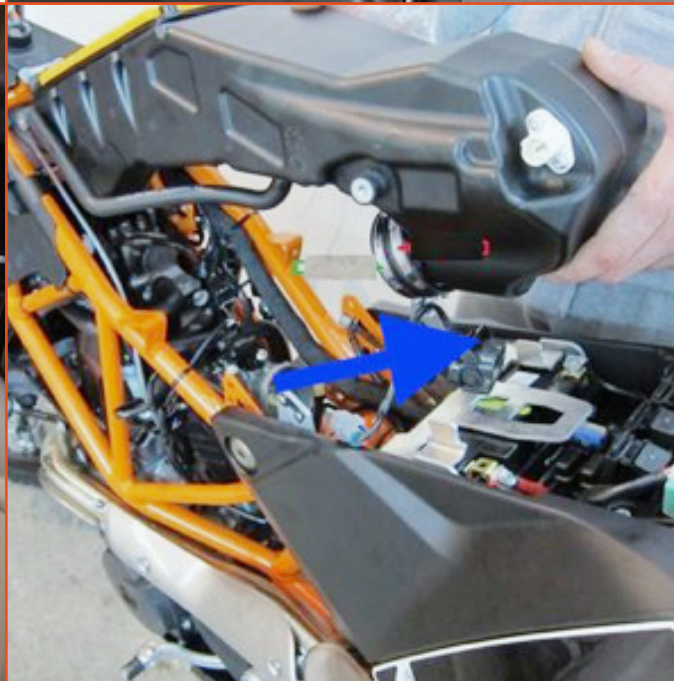
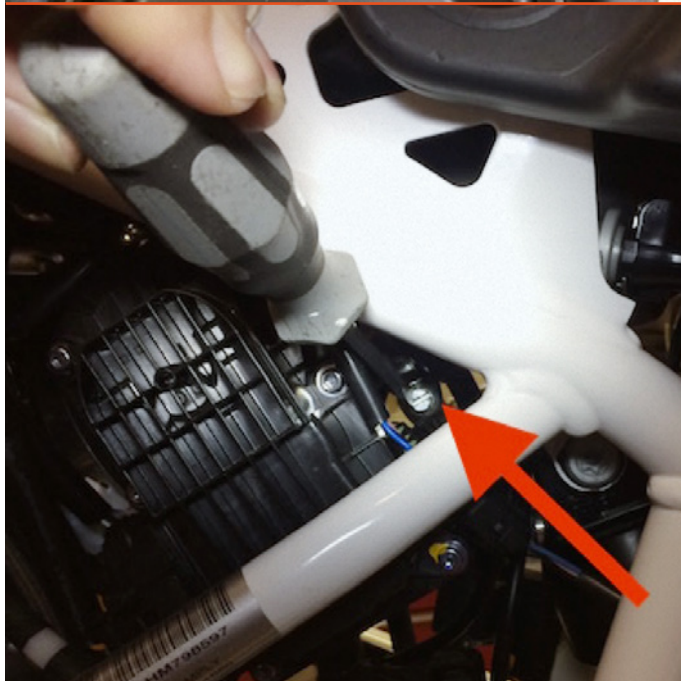


- The Airbox is on 2 M5 bolts (two from each side). On the right side you have to remove the cooler first to access the bolts holding the airbox.





- Remove the ECU simply lifting it upwards from the locators (left).
- Disconnect the temperature sensor (right), cut any Zip ties off.
- From the left side of the engine, release the steel hose clamp securing the air intake tube to the engine.



- Disconnect the black tubes coming out of the airbox. One is on left side of the frame (left).
- Perfect, the first step is done! The bike is prepared now for the installation of your auxiliary tank!

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**TIP:**

If you look closely, there are two steel hose clamps, you will release the one closest to the engine.



### 3.

Remove the intake and heat sensor.

- Remove the heat sensor from OEM airbox, keep the screws (you will need them later) and make sure you don't lose the very small rubber O-ring on the heat sensor.
- Remove the 50 mm hose clamp and take out the rubber fitting/intake.



- Remove the intake and heat sensor.

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#### TIP:

Open the OEM airbox from top, remove the filter and put one hand in to better push out the intake and use your second hand to pull it out... you have to squeeze it a little to get it out! Don't worry – it is rubber and it has the shape memory.





## 4.

Complete the “small airbox” and filter.

- Insert the rubber intake into the “small airbox” and fasten the steel hose clamp.
- Use the OEM screws and fix the heat sensor to the “small airbox” (make sure the O-ring is on the heat sensor).

- Here you can see all the filter parts: pre-oiled foam filter, cage for the filter and the frame with two bolts.

- ① Pre-oiled foam air filter
- ② The cage
- ③ The frame & M5 bolts



- Put the cage inside the air filter and from outside put the frame on.
- Bolt on with M5 × 16 bolt to the “small airbox”.
- The holes are asymmetric so there is only one direction that it can be assembled.



Start mounting the small airbox into the bike.

- The ABS version tank has small front bracket and U-rear bracket as on the picture.







- The front bracket goes on the bracket holding the ABS unit.



- The second tank holder.
- Make sure the bolts go from inside and the mothers from outside.

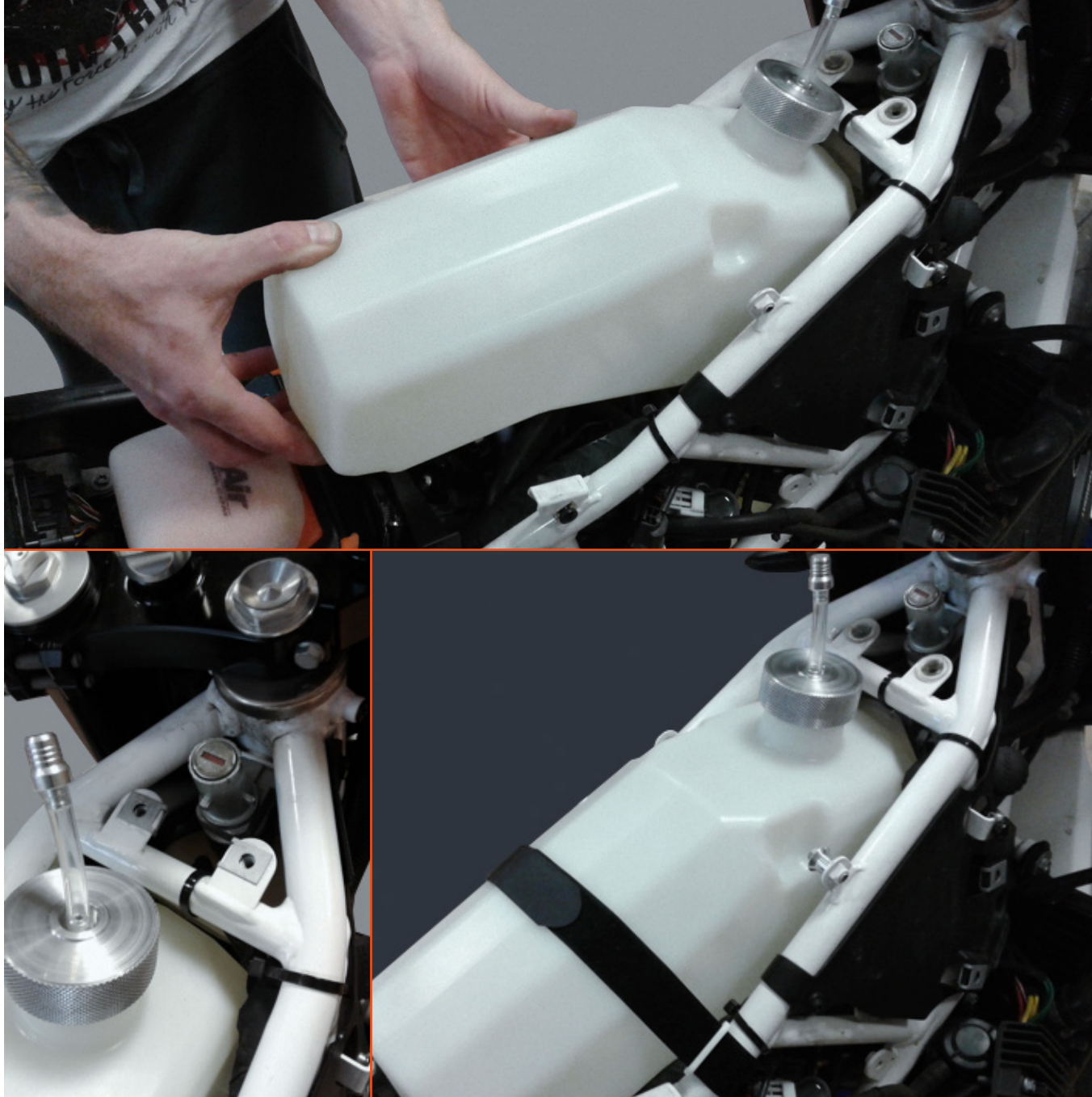




- Before you insert the “small airbox” into the bike, make sure you connect the vent tube and electrical connector to the heat sensor!



- From left side please connect the transparent tube and add breather filter (pic bellow).



## 6.

Insert your new auxiliary tank.

- First, make sure the fuel supply hose is connected and tightened to the connector on the bottom of the tank. Use the supplied hose clamp to tighten into place.
- Feed the fuel tube through the area where the red arrow is pointing (below, left pic).
- Then, you can sit the tank in front on the diagonal frame tube and on the bracket in the back.
- Line the fuel tube as in the pics below, making sure it will be clear of any hot engine parts and sharp edges,. Secure it to the frame with Cable ties.





- Insert the tank that it sits on the front and rear bracket.
- Then put the Velcro over strap. The strap does not go around tank only above the tank. Tighten it around one frame at a time a then over tank and again around the frame tube on the other side.







## 7.

The air outflow.

- Mount the tank vent holder to the seat holder. Use the transparent tube to connect the fuel cap with the vent.



## 8.

Connect the fuel tube to the main tank and install the petcock.

- Put the petcock on the fuel line and secure to the frame.
- Make sure you place the supplied steel fuel line clamps onto the fuel line prior to fitting the petcock. Once the petcock is in place, tighten the fuel line clamps.





## 9.

Connect the auxiliary tank to the main tank

### TIP:

As mentioned, we recommend emptying the main tank as much as you can before this step – just ride up to the reserve.

- First, remove the rear (fuel tank mudguard), (see green arrow in below pic). Then, remove the 4 screws holding the fuel pump assembly to the OEM fuel tank (see red circle in below pic).

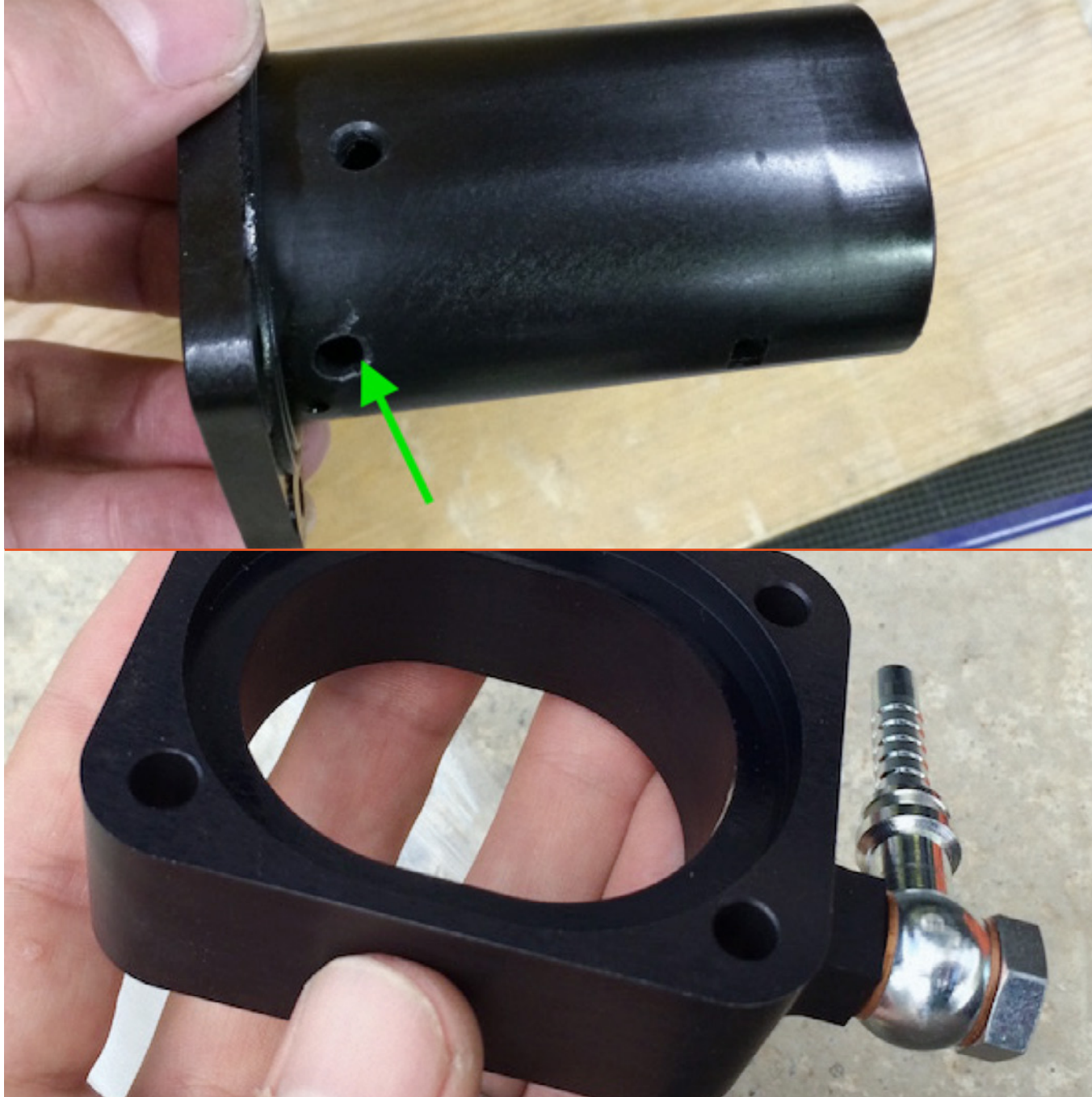
### CAUTION:

Any fuel remaining in the tank will spill during this procedure, place a suitable container under the tank to catch spillage.

- Carefully pull down on the fuel pump assembly until you can see the two lock tabs either side of the pump housing, (see green circle in below pic). Using a small flat screwdriver, carefully depress both tabs to release the black plastic pump cover. With both tabs depressed, remove the black plastic fuel pump cover. Note the actual fuel pump remains connected and in place in the fuel tank.

### TIP:

The pic below shows the black plastic cover removed from the fuel pump.



- Summary of this step: 2 × 4 mm holes must be drilled into the black plastic fuel pump cover. One directly behind where the banjo bolt goes on the aluminium spacer, the other 90 degrees and 10 mm above the first hole (see pic below).
- If the banjo bolt is currently installed in the aluminium spacer, remove it. Place the aluminium spacer over the fuel pump cover with the O-ring groove facing up (see last pic, right for proper positioning; see below pic, right for O-ring groove).
- Insert a 4 mm drill bit through the threaded hole where the banjo bolt will be installed and drill very lightly into the black plastic cover, with just enough pressure to mark the plastic cover. Be careful not damage the threads. Remove the banjo bolt and continue to drill the marked hole. (See green arrow in the pic below, left).
- Clean any plastic shavings from the black plastic fuel pump cover and aluminium spacer.
- Insert the supplied aluminium spacer over the black plastic cover, with the O-ring groove and O-ring facing up towards the fuel tank.
- Correct installation has the rubber O-ring on top and the outflow on the right side of the bike.





- Locate the supplied 4 screws to mount the spacer assembly to the fuel tank and start each screw, (finger tight only) then progressively tighten each screw with great care, do not overtighten these screws.
- Insert the supplied banjo bolt and copper crush washers into the aluminum spacer. Ensure these are tightened appropriately, but do not overtighten.
- Connect the fuel tube from the front tank to the rear tank. Ensure you place the fuel hose clamp onto the fuel line first.
- Tighten the fuel line hose clamp.

## KTM 690 ENDURO

### CONGRATULATIONS ON A SUCCESSFUL INSTALLATION!

I hope these instructions helped and you enjoy the extended range of your bike and the freedom which it brings. If you have any questions about installation, feel free to send us an email at [rade@radegarage.com](mailto:rade@radegarage.com)

RIDE HARD, RIDE SAFE!  
YOUR RADE GARAGE TEAM

