

INSTRUCTIONS TO INSTALL A 100l FIA FT3 FUEL TANK ON A PRE-MODIFIED SEAT LEON CUP RACER BODY-SHELL

The following instructions have been made to make easier for the customers the installation of a 100l FIA FT3 fuel tank on a pre-modified SEAT LCR body-shell. If the body-shell is previous to chassis number VSSMK35F4ESSP0125 and has not been modified yet, please follow first the instructions on the document **Body-shell modifications 2016**.

The most important parts, that are included on the kit and have to be assembled on the car, are the following ones:

- FIA FT3 fuel tank
- Connecting parts
- Fuel hose from fuel tank to the engine bay
- Ventilation hose
- Electric elements

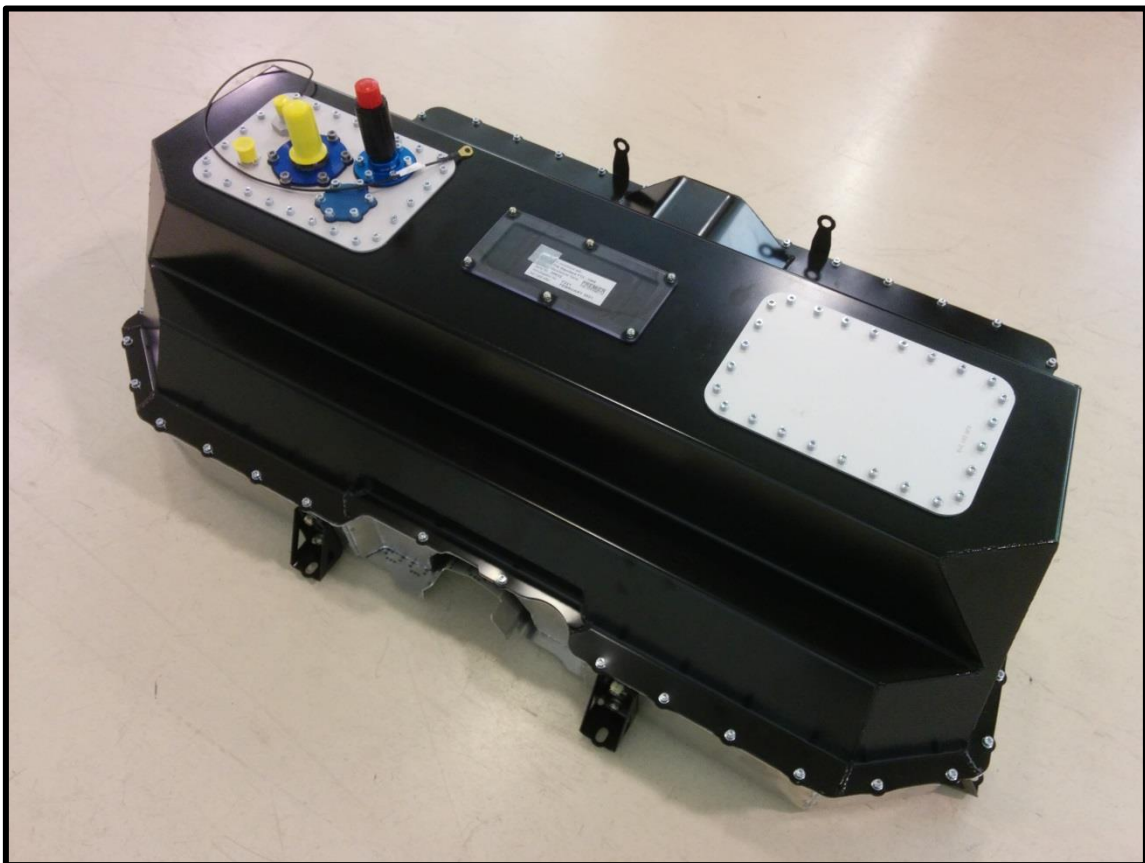
From this point on, the steps explaining how to proceed are described:

FIA FT3 Fuel Tank assembly (see PDM 5F6201055)

- 1- First of all, take the fuel reservoir assembly (5F6201075A) and place inside on its support the fuel filter (_4F0201511E) using the interlayer (8JR201643) and the ty-rap (VN0004501900) as shown in the PDM page 3.
- 2- Place both fuel line harnesses (5F6201863 and 5F6201864) on their position and fix them to the fuel reservoir assembly using the six M4 nuts (VN0003130115) as shown in PDM pages 1 and 2. Be careful tightening the nuts not to break the plastic parts. Connect also the right fuel line harness to the fuel filter as shown in PDM page 3.
- 3- Place the three de-coupling parts (8JR201067) on the fuel reservoir and fix the fuel pump assembly (8JR201067) on them using the two clamping rings (8JR201442) as shown in PDM page 1. Connect both fuel line harnesses to the pump and one to each other as shown in PDM pages 1 and 2. Finally connect the supply pipe (5F6201220) to the fuel filter exit as PDM page 3 shows.
- 4- Take the right sealing flange and assemble on it the fuel safety coupling (VN0005130410), the roll over valve (42A201811), the blind cover (5F6201939), the fuel pump wiring set (8JR971316) and the fuel line connection parts (8JR201049A). To do this use the connecting parts, gaskets, bolts, washers and nuts shown in PDM pages 3 and 4. For the tightening torques see pages 9 and 10.
- 5- Assemble all the brackets (5F6201503B, 5F6201504B and 5F6201706B) on the lower fuel tank box assembly (5F6201882C) following the instructions on PDM page 5. Use the Ø8 washers (VN0002000910) and M8 nuts (VN0003040925). Tightening torques in PDM page 10.

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- 6- Place the exhaust heat shield (5F6201247A) below the lower box assembly using the M6 nuts (VN0003040725). See PDM page 5 for instructions and page 10 for tightening torques.
- 7- Screw the plastic cover (5F6201980A) on the upper fuel tank box assembly (5F6201881F) as shown in PDM page 6. Do not forget the gasket (5F6201119). Be careful tightening the nuts not to break the plastic cover.
- 8- Close the fuel tank box with the fuel reservoir assembly inside. Do not forget the four gaskets between both box parts (5F6201196, 5F6201196A and 5F6201196B) and two more between the upper box and the fuel reservoir (5F6201558). See PDM pages 6 and 7 to see the gasket locations.
- 9- Finally connect the fuel pump wiring set to the pump and the fuel supply line to the connector in the right sealing flange as shown in PDM page 3. Now, using two more fuel reservoir gaskets (5F6201558) screw both sealing flanges (8JR201319 and 8JR201319C). See PDM page 9 to get tightening torque of the M5x16 screws (VN0001148816).



Picture 1: 5F6201055

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FIA FT3 Fuel Tank installation on the car (PDM 5F6299001)

- 1- Use the gasket (5F6201740) to protect the body-shell hole for fuel tank edges as in the following picture.



- 2- Assemble the FIA FT3 Fuel Tank (5F6201055) on the car as shown in the page 1 of the PDM. To fix it use the eight M10x18 screws (VN0001160916) and washers (VN0002001010). Tightening torque in PDM page 2.



- 3- Connect the ventilation hose (5F6201179) to the roll over valve exit. Fix it to the body-shell using the cable ties (3D0971838N) as shown in the following picture.

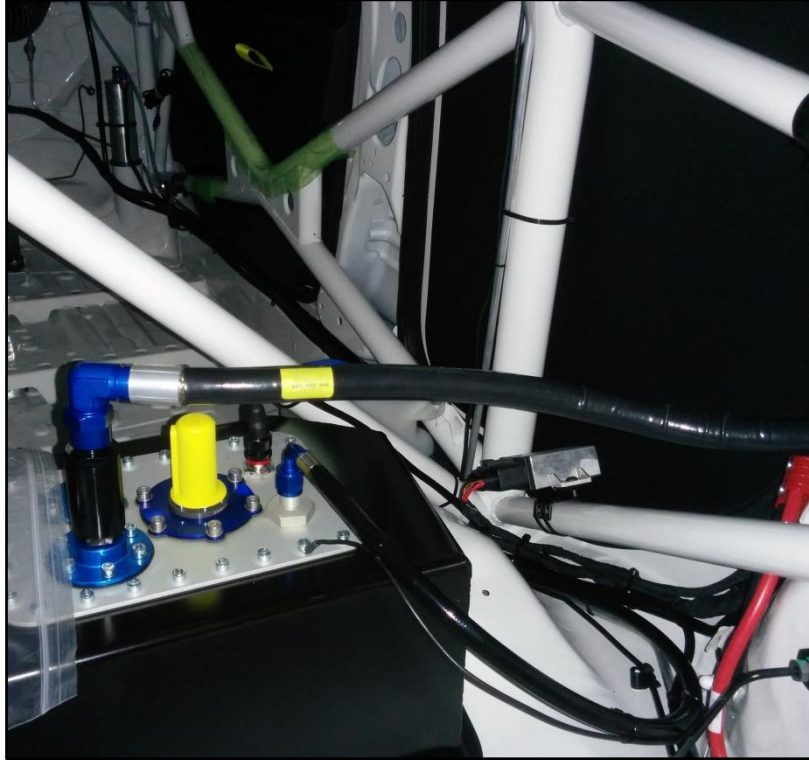


- 4- Make a hole in the lower right side of the rear bumper and make the ventilation tube go to the outside through it. Use a rubber grommet in the body-shell (VN0002901500) and another one in the rear bumper (_1K0906116C) as shown in the next pictures.

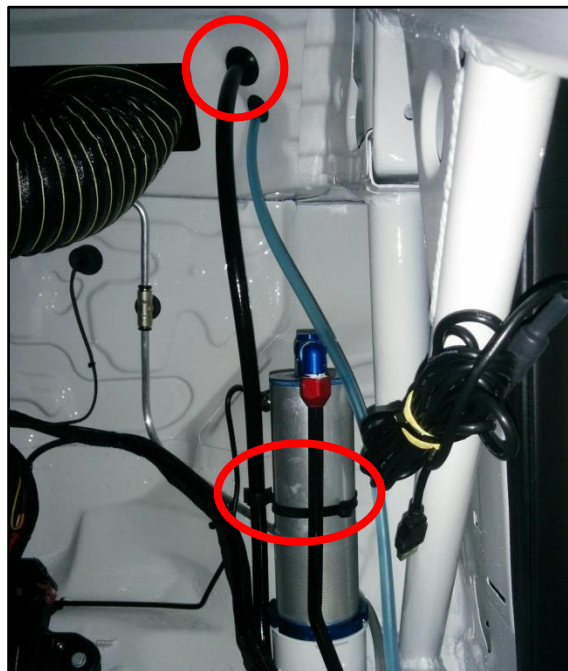


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- 5- Connect the fuel hose (8S6201757) to the fuel line connecting piece on the fuel tank cover. This tube goes to the engine bay through the cockpit next to the right doors. It has to be fixed to the main wiring loom and the airjacks circuit using some ty-raps.



- 6- Once the hose arrives to the dashboard area, it has to cross the wall between the engine bay and the cockpit. Make the tube go through the hole shown in the next picture and use a rubber grommet (V2ML927905C) to protect it. Use the Ø8- Ø95 tie (VN0007210500) to fix the hose to the airjack.

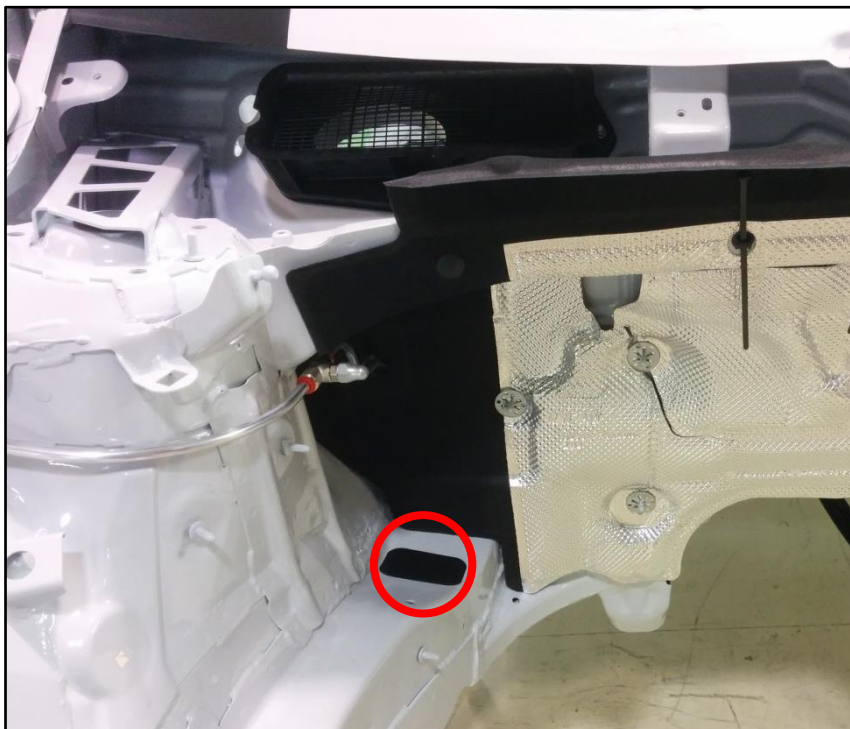


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Once in the engine bay, the hose has to go around the coolant bottle and be connected with the fast coupling to the FIA fuel valve as shown in the next picture.



Put the sticker (V2ML803995) to cover the empty hole on the engine bay through which the old fuel hose was placed as shown in the picture below.

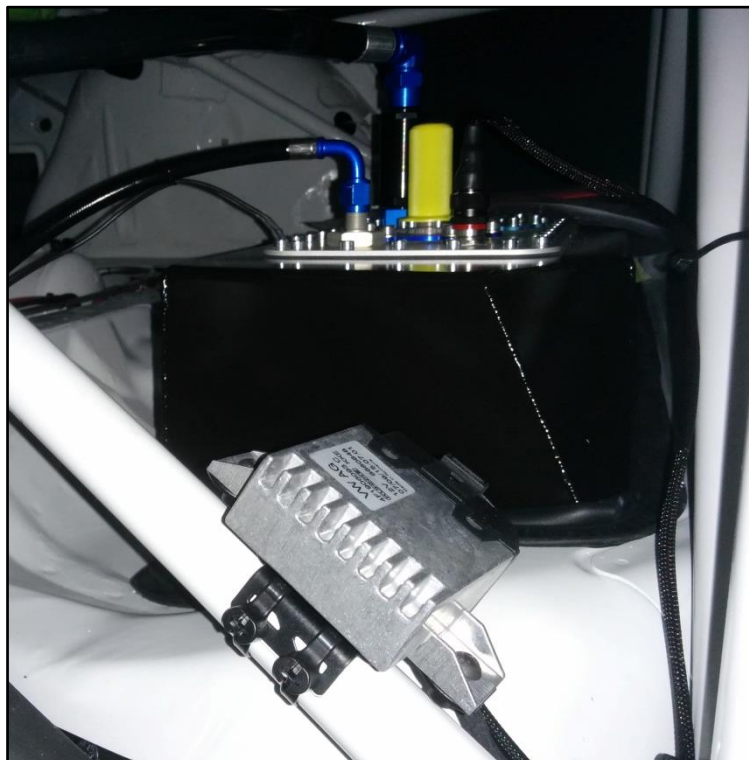


7- Fit the restrictor (5F6201101) on the engine bay under the FIA fuel draining valve as shown in the following picture.

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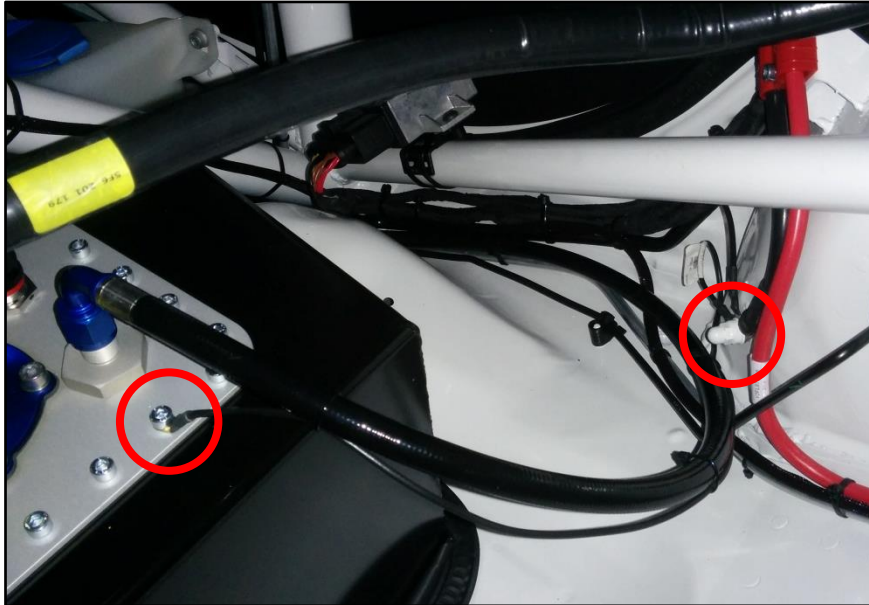


- 8- Place the new fuel pump control module PWM (4F1906093C) in the roll-cage using the PWM support (5F6906116A), two ty-raps (VN0004500900), two bolts (VN0001905939) and the Heli-tape to not mark the roll-cage (VN0000017900) as shown in the next picture.

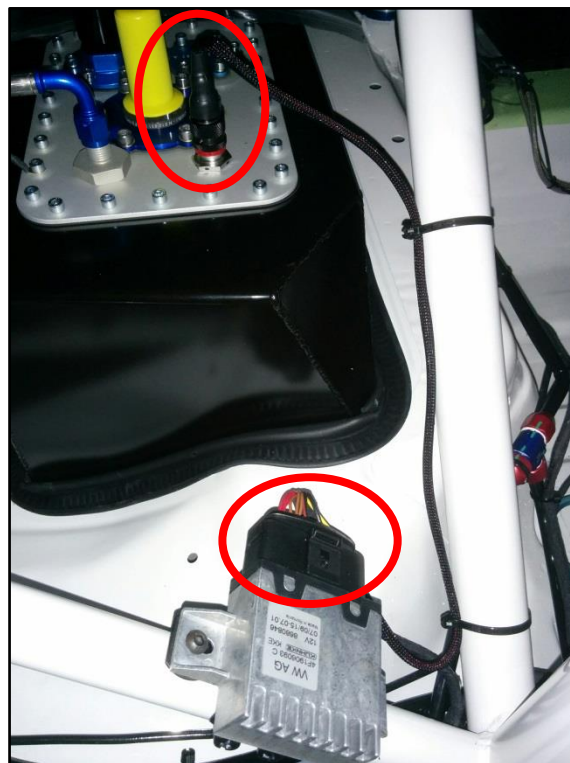


Connect the ground cable (5F6201142) from the fuel tank right sealing flange to the ground connection in the body-shell next to the rear right door as in the following picture.

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- 9- Finally, a small modification on the main wiring loom has to be done. First of all, the pins 1 and 2 from the PWM connector have to be disconnected and taped. Secondly the new wiring loom adapter (5F6971727) has to be connected to these now free pins and to the military connector over the fuel tank as shown in next picture.



Notes:

- Remember that before starting the car for the first time with the new fuel tank it is necessary to reflash the engine ECU. See NT_04_16_ELECTRONIC_UPDATES on SEAT Sport website to know how to proceed to get your ECU flashed.



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- It is strongly recommended reading the User Manual 2016 to get more information about the new fuel tank.
- Read the following technical notes available on SEAT Sport website:
 - NT_02_16_FUEL_TANK
 - NT_03_16_FUEL_LEVEL_DISPLAY
- Remember that as it is said on the User Manual cleaning the fuel pump filter after 200 km will be necessary. See the User Manual for further instructions.

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