

ALTERNATIVE
FUEL SYSTEMS

Prins



Fitting instruction rear kit

MAKE OF AUTOMOBILE:
TYPE:
TANK CAPACITY:
TANK LOCATION
MODEL YEAR:
SYSTEM APPROVAL NUMBER (R115)
BOOT SET NUMBERS
MANUAL NUMBER:
DATE

Hyundai // Kia
Tucson // Sportage
74 Liter Stako / 75 Liter Step Fuel Module toroidal
Spare wheel room
2016-
E4-115R-000017 / DLM-LPG 10
949/075201001/A // 949/075201003/A
076/0910774-1
2019-02-27



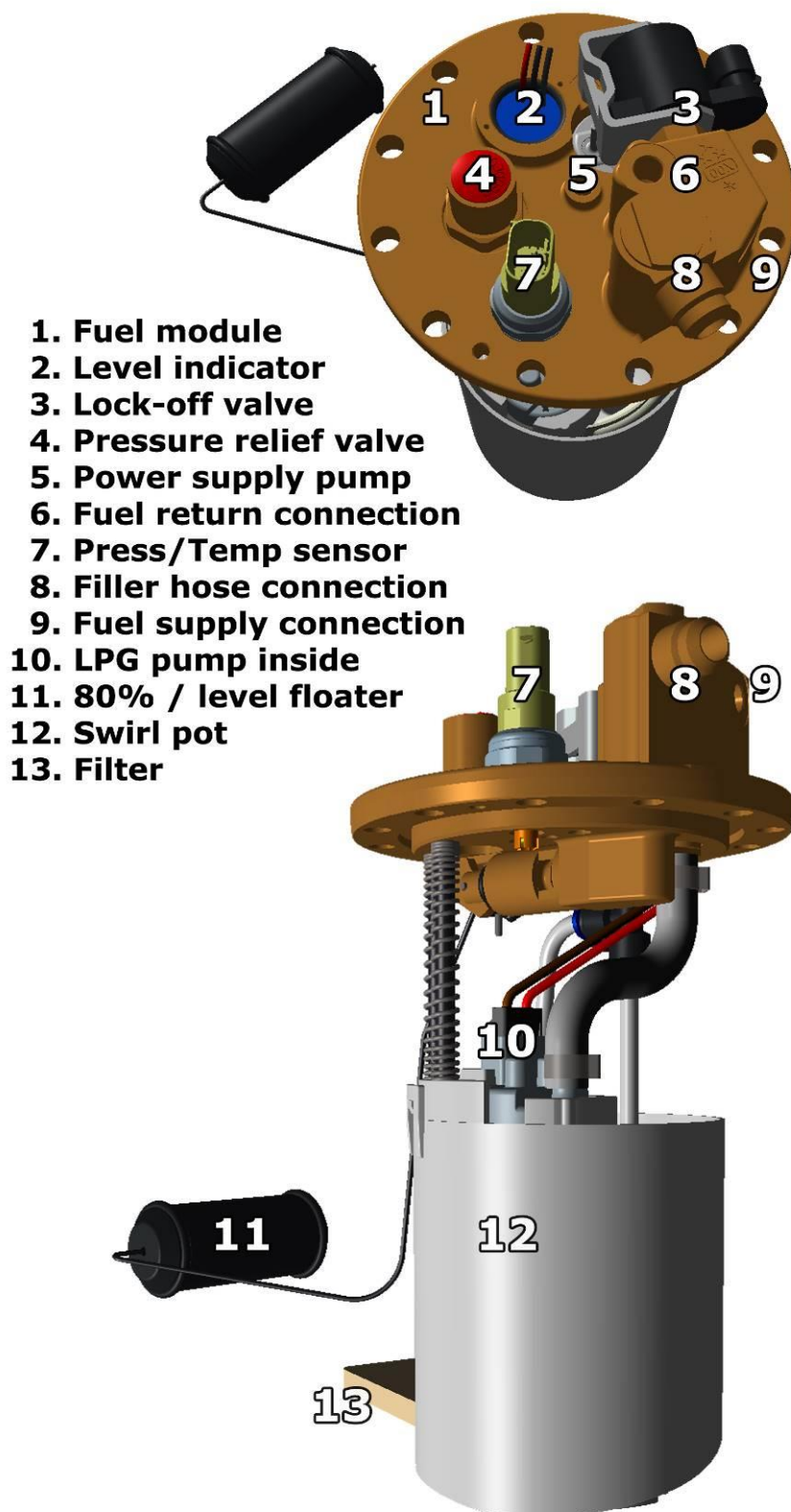
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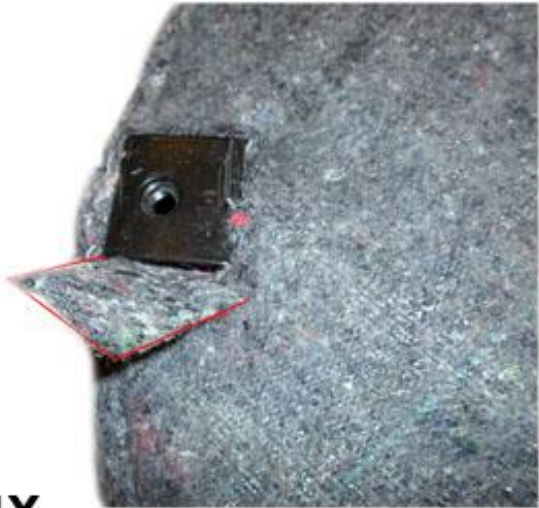
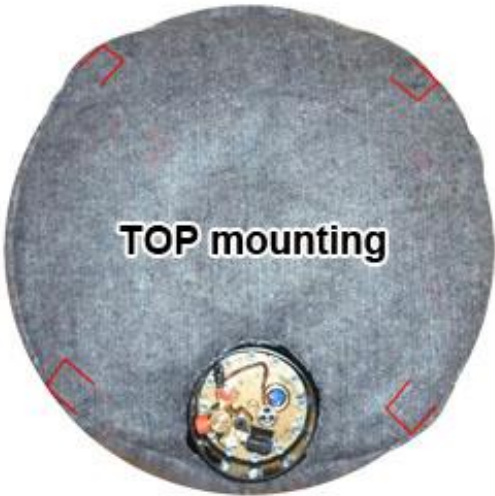
General

- Tools needed for installing the LPG tank :
 - Soldering iron
 - Drilling machine
 - Drilling kit
 - Drill size 22 / 30mm
 - Workshop tools.
 - Gas leak detection device
 - Vacuum cleaner
 - Anti-corrosion agent / black body coating
 - Car lift
- Always disconnect the battery when installing / working on the LPG system.
- Make sure the ignition key is outside the car.
Be aware of central door locking, radio / telephone memory code, alarm system.
- Note the jack supporting points and moveable parts when mounting the LPG line.
- After having drilled the holes (use safety glasses) for the mounting of a tank frame, floor ventilation, etc., always treat the holes against corrosion after having removed the grindings.
- When the LPG tank is mounted underneath the vehicle treat the tank with a (black) under coating.
- Failure to follow the instructions in this manual can result in a poor or non-working gas installation or a dangerous situation.
- No component of the LPG-system shall be located within 100mm of the exhaust or similar heat source, unless such components are adequately shielded against heat.
- Mount the LPG tank according to the local LPG regulations. The LPG installer is responsible for that.
- After having completed the installation, check the whole system for gas leakage; use a gas leak detection device.
- Prins Autogassystemen is not responsible for any damages to people or objects as a result of changes to Prins products.
- Beware of moving, hot and rotating parts.
- Check [the Prins site](#) for tank certificates and wiring diagrams.

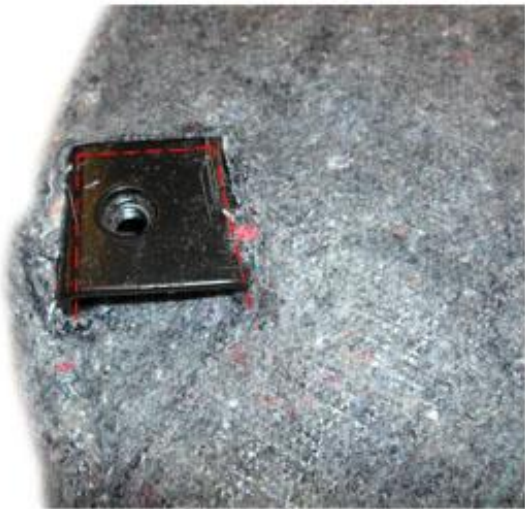
Tank Fuel Module



Tank isolation covers

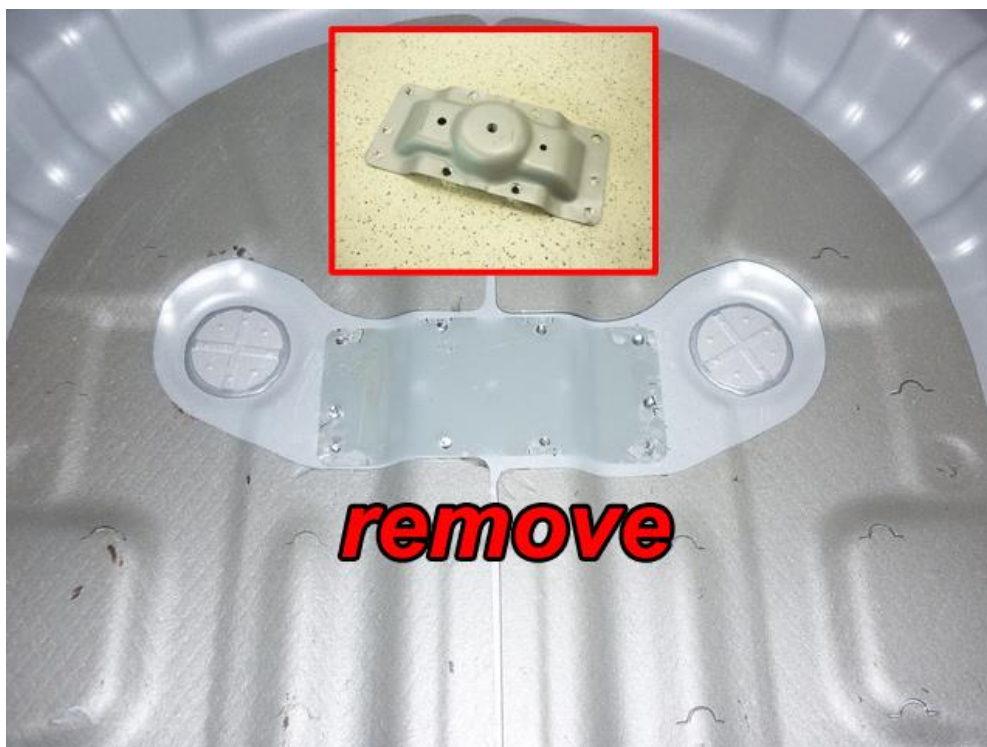


4X



Remove inlay



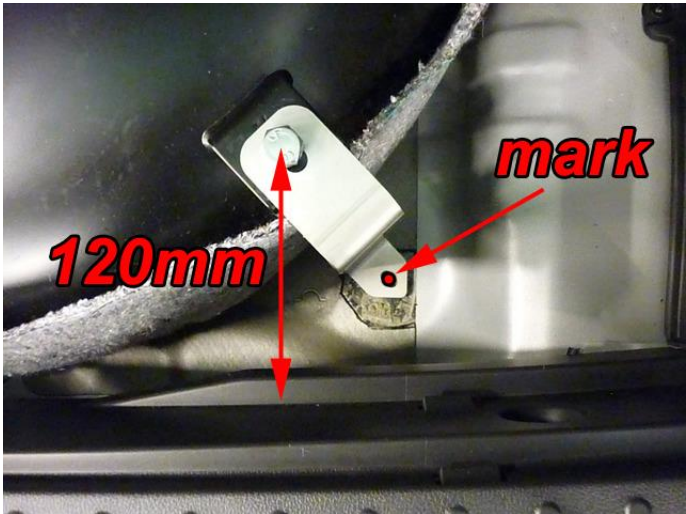
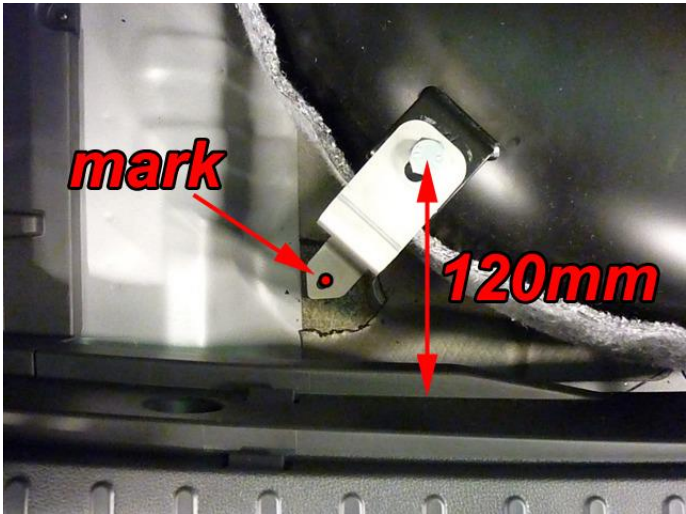
Remove support

Treat anti-rust.

Positioning the tank brackets



Install tank temporary to mark the holes

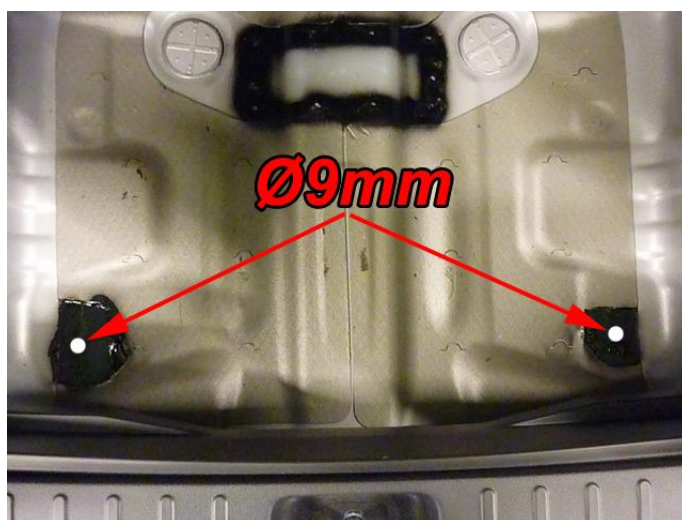
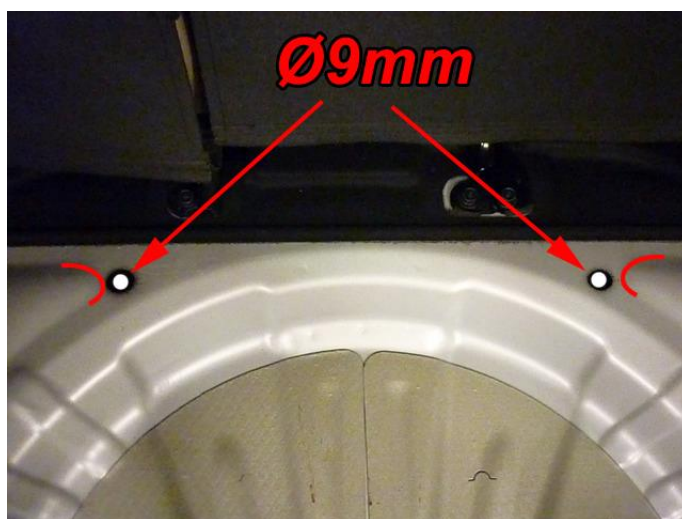


Positioning the tank brackets and mark the holes

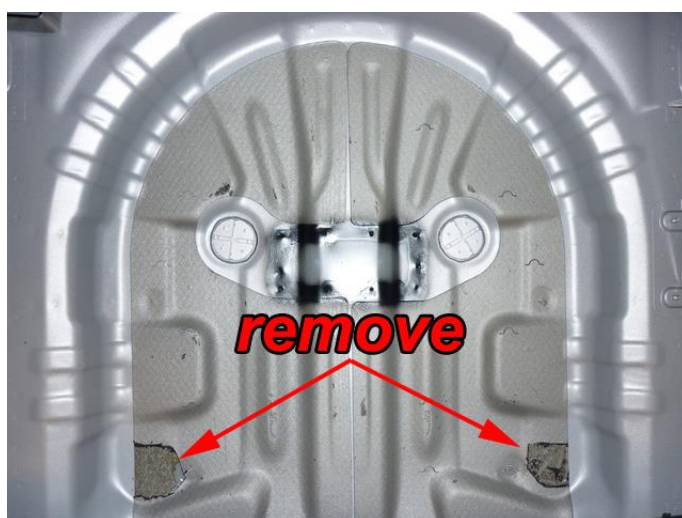


Drill marked holes

Remove tank



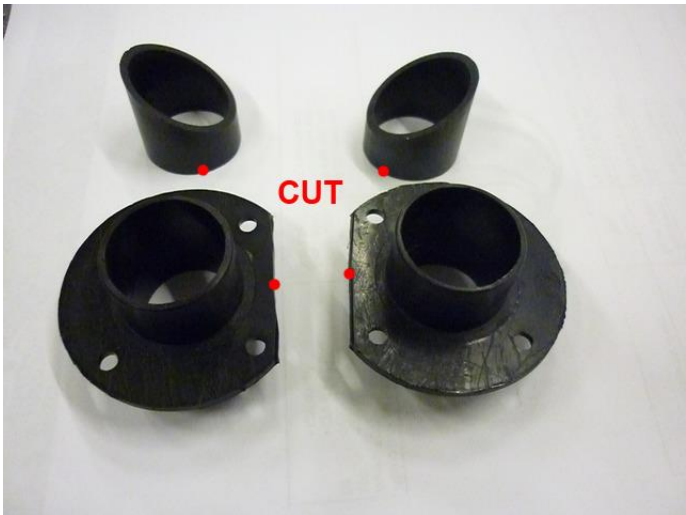
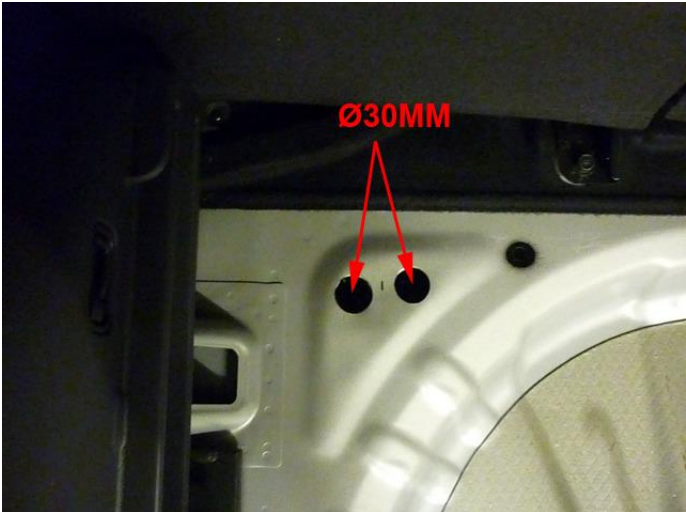
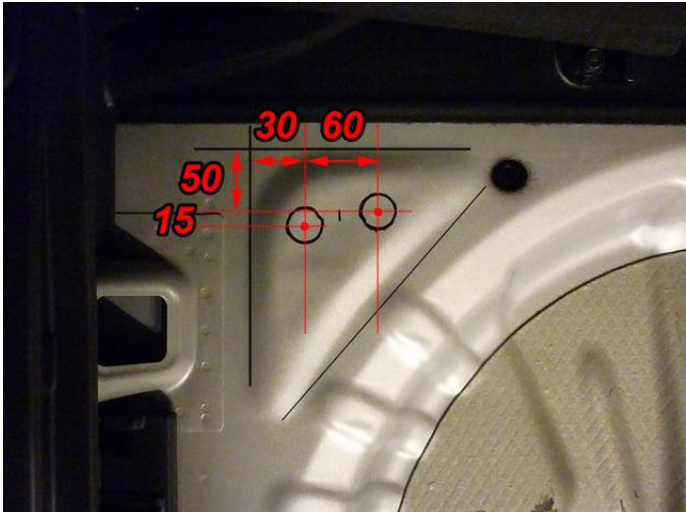
REMOVE ANTI-DRUMMING COAT AROUND BRACKET/HOLES



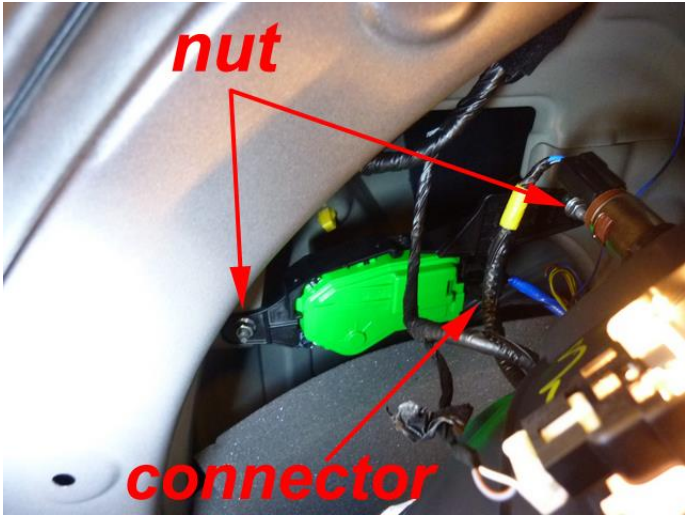
Prepare ventilation location



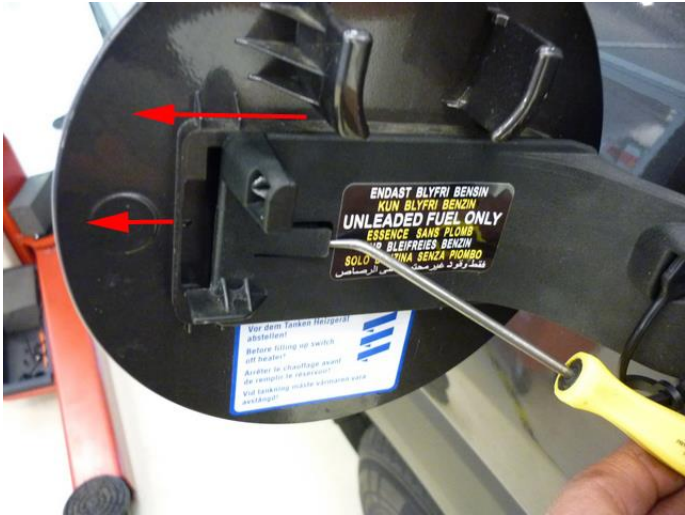
Ventilation pipe installation



Filler installation, remove locking (Tucson/Sportage -2018)



Filler installation (Tucson/Sportage -2018)



Remove petrol cover
Remove ring



Insert ring before placing bracket

Filler installation (Tucson/Sportage -2018)

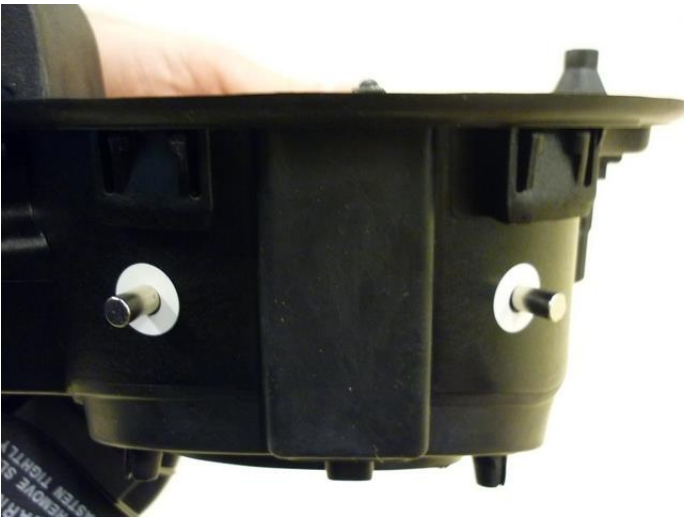


001/520072

Ring installed back

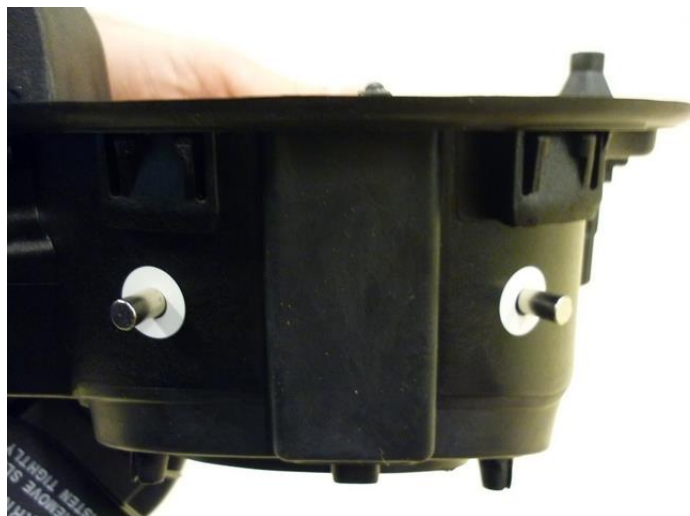


Temporary re-install bracket against ring... NO kit for now....



Filler installation (Tucson/Sportage -2018)

Remove bracket and drill:



Temporary re-install bracket... **NO** kit for now....:

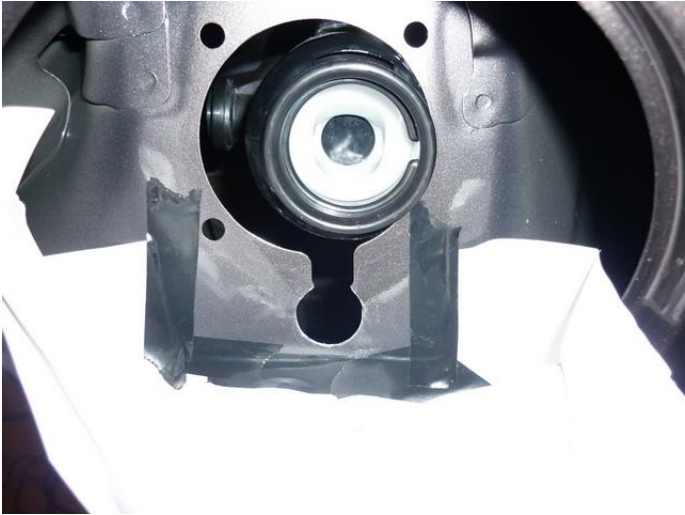


Filler installation (Tucson/Sportage -2018)



Remove again.

Filler installation (Tucson/Sportage -2018)



Filler installation (Tucson/Sportage -2018)

Remove bracket and re-install **with sealant**



If necessary for filler clearance, carefully dent the bodywork

Filler installation (Tucson/Sportage -2018)

Remove bracket and re-install **with sealant**

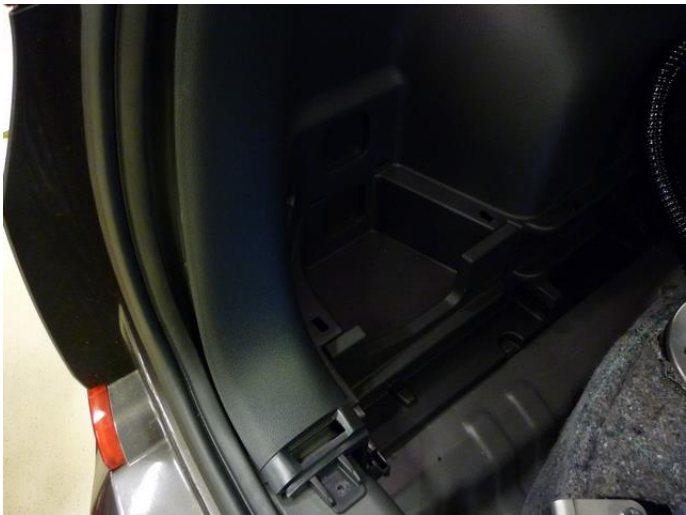
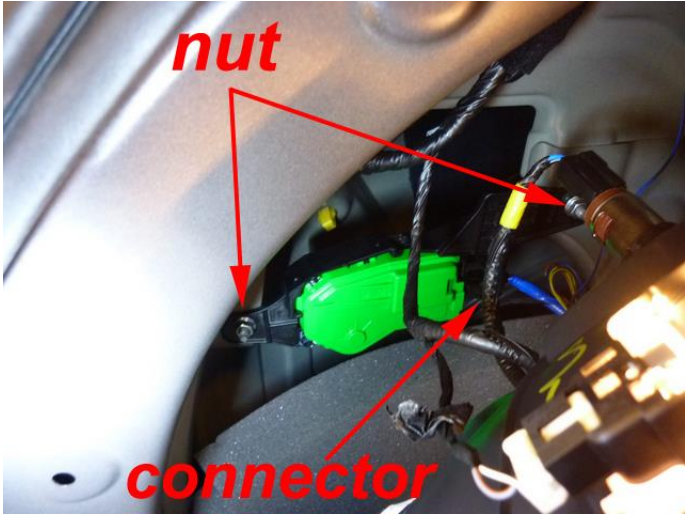
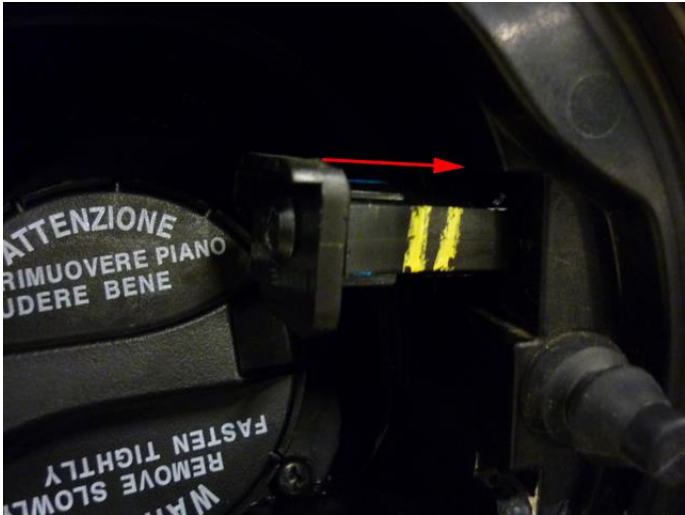


Mount al covers.



Use sealant on the inside.

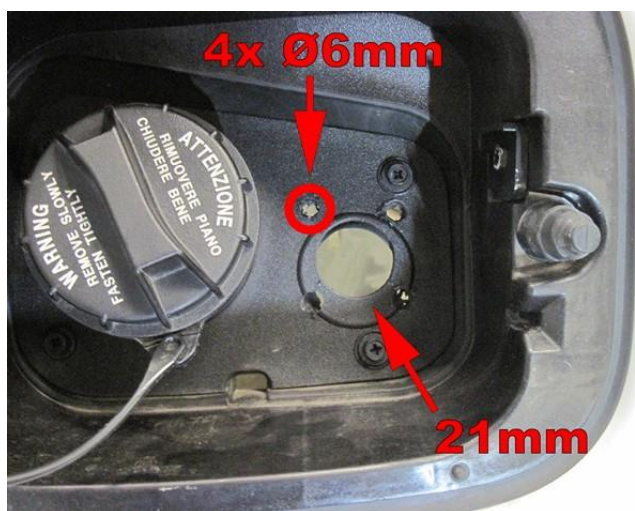
Filler installation, replace locking (Tucson/Sportage -2018)



Filler installation (Sportage 2019-)



Remove mud guard. Mark holes for drilling.

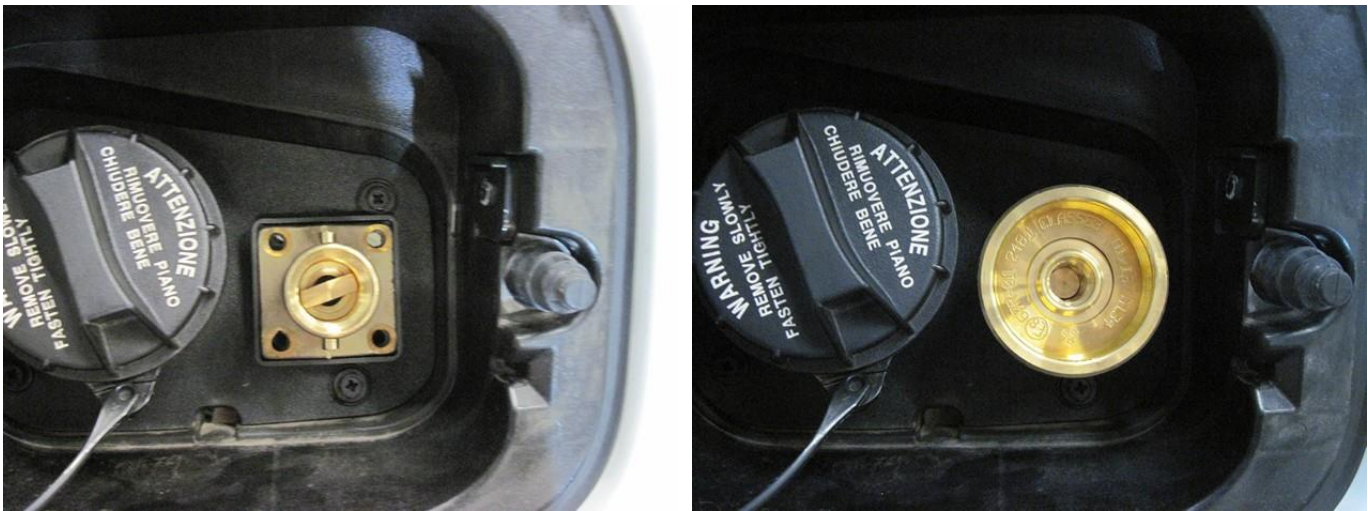


Drill holes 4x Ø6mm & 1x Ø21mm. Mount the filler with the longer inox bolts.



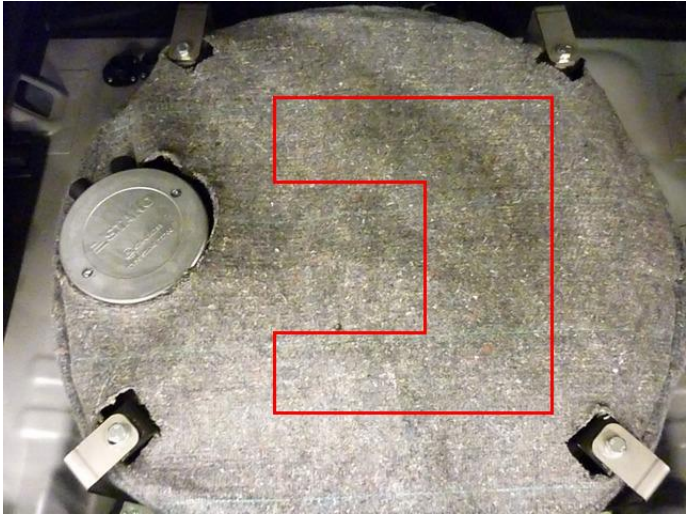
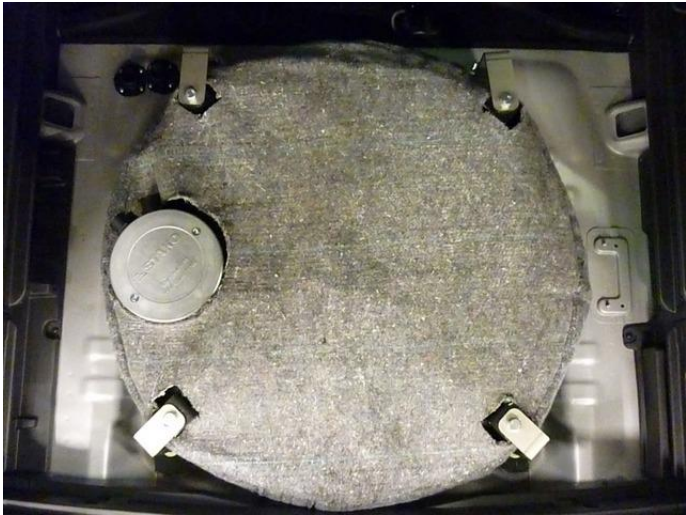
Mount the filler to the vehicle with the mounting plate. Mount the cover.

Filler installation (Sportage 2019-)



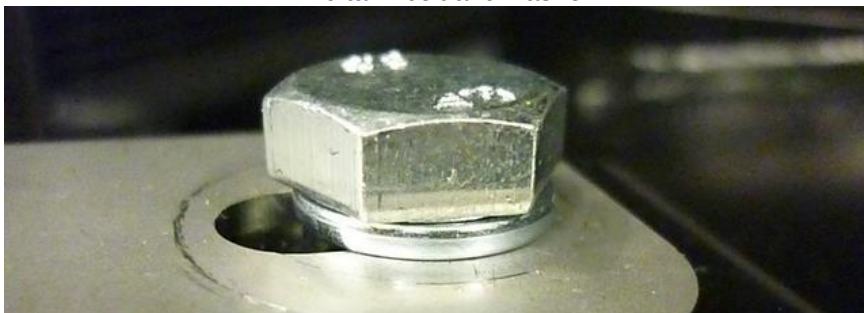
Other possible fillers.

Tank installation



Tank installation

M10 tank bolt and washer



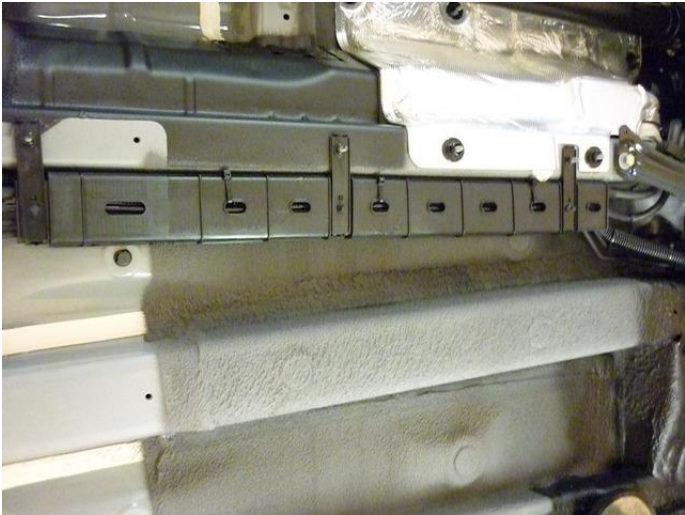
M8 bolts and washer plates



Fuel lines



Fuel lines



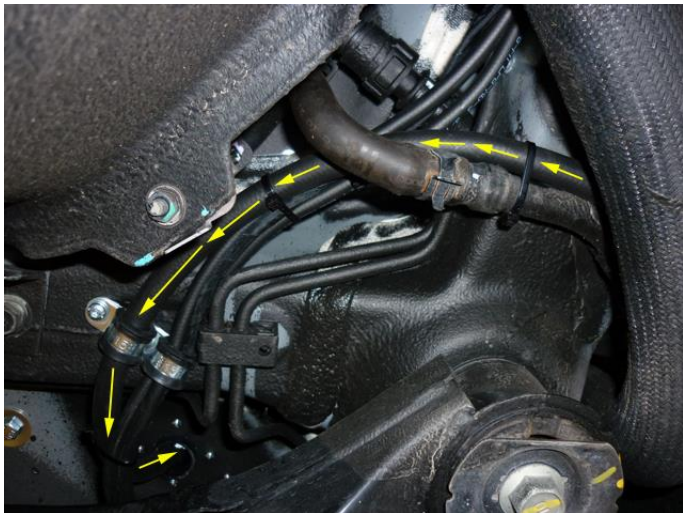
Fuel lines



Filler ventilation : $\pm 37\text{cm}$
Fuel lines ventilation : $\pm 85\text{cm}$



Filler hose Tuscon (-2018)



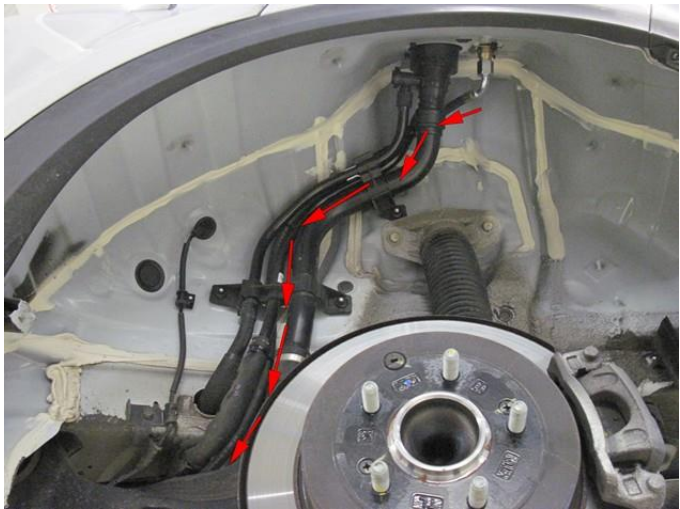
Filler hose Sportage (-2018)



Filler hose Tucson / Sportage (2019-)



Connect the filler hose to the filler.



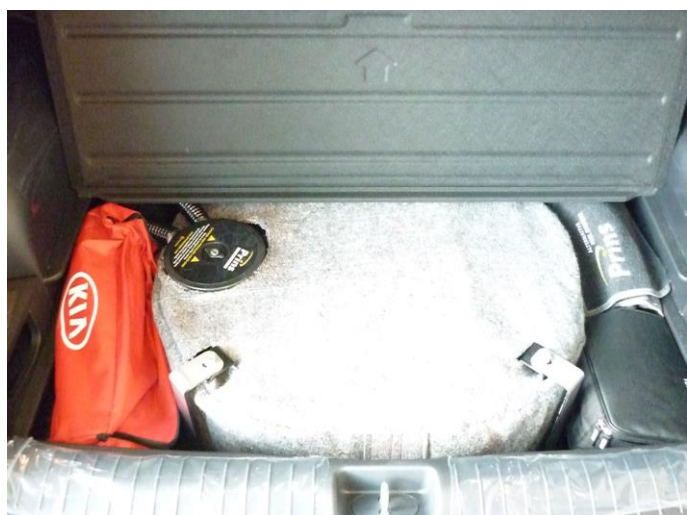
Routing.



Finish



Filler hose ventilation hose, ± 37 cm
Use a 35 mm clamp on supply ventilation hose ± 85 cm



Tank wiring

Wire number / code	Wire colour	Connection
3-pole tank level connector 1. 33 Ground tank level 2. 12 Tank level in 3. 11 + tank level supply	Brown-white Blue Red-blue	Connect the 3-pole connector to the tank level sensor.
4-pole Tank P/T sensor 1. 45 Ground P-Tank 2. 38 P-Tank 3. 15 T-Tank 4. 28 +5V sensor	Brown-black Green Grey Red	Connect the 4-pole connector to the P/T sensor.
2-pole Steering Diagnose connector 1. Ground pump driver 2. +12V pump driver	Brown Red	Connect the 2-pole connector to the driver, connector 3.
2-pole Steering Diagnose connector 1. 71 LSS3 Pump driver PWM 2. 64 Pump driver diagnose	Purple-pink Blue-grey	Connect the 2-pole connector to the driver, connector 4.

Pump Driver	Wire colour	Connection	
1. 2-pole connector tank lock-off	Green-yellow Brown	From tank pump driver From tank pump driver	
2. 3-pole connector tank pump	Red Brown	From tank pump driver From tank pump driver	
3. 2-pole connector driver	Brown Red	From main ground From tank pump relay	Ground pump driver +12V pump driver
4. 2-pole connector driver	Green Grey	From AFC pin 71 From AFC pin 64	LSS3 Pump driver PWM Pump driver diagnose

