

ALTERNATIVE
FUEL SYSTEMS

Prins



installation manual Engine Kit part 2/2

MANUFACTURER	FORD
TYPE	C-MAX // FOCUS // KUGA // MONDEO
ENGINE DISPLACEMENT	1498cc
NUMBER OF VALVES	16
ENGINE CODE / NUMBER	M8DA-F 110kW // M8MA-F 110kW // UNCA-F 118kW // UNCN 121kW
ENGINE CODE / NUMBER	M9DA-D 134kW // M9MA-D 134kW // M9ME 128kW
VEHICLE CATEGORIES	M
TRANSMISSION	MT / AT
AFC VERSION	AFC-2.1
PETROL ECU MANUFACTURER / CODE	FOMOCO Continental EMS2511 / EMS2513
HIGH PRESSURE PETROL PUMP	FOMOCO DS7G-9D376DC
HIGH PRESSURE PETROL INJECTOR	FOMOCO
MODEL YEAR:	10-2014
SYSTEM APPROVAL NUMBER (R115)	E4-115R-000009 / DLM-LPG 02 (not all engine codes!)
LOCATION R115 SYSTEM STICKER	right side, centre door post
ENGINE SET NUMBER	347/070215001/A // 347/070415001/A // 347/070615001/A
ENGINE SET NUMBER	347/070615011/A // 347/070215011/A // 347/070415011/A
MANUAL NUMBER	076/0706000
DATE	26-3-2018
	Version 27-5-2015 D



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General instructions

- The installation of the system shall be done in accordance with the installation manual provided by Prins Autogassystemen.
- This manual is based on Dutch regulations, always install the system in accordance to the local regulations.
- For an optimal functioning of the Direct LiquiMax-3.0 system, maintain a clean and organized work environment during installation and maintenance to prevent pollution of the LPG components.
- Always download the “general manual 1/2 “ from our [website](#) for basic instructions and diagrams.
- When working on the car, beware of moving and rotating parts in the engine compartment (even when the engine is not running !!).
- Always **disconnect the battery when installing / servicing** the LPG system. Make sure the ignition key is outside the car. Be aware of central door locking, radio / telephone memory code, alarm system.
- Wear safety goggles when working on the petrol filled system / connections (pressurized petrol)
- Do not place the main fuse into the fuse holder before having completed the installation of the system.
- The AFC has to be activated by means of the Prins diagnosis software.
- Never disconnect the AFC connector, unless you have removed the main fuse.
- When installing the wiring harness, ensure that it does not run near any of the ignition components.

Solder and insulate all electrical connections.

The wires in the loom are provided with numbers and text. The text on the wire explains the function of the wire.

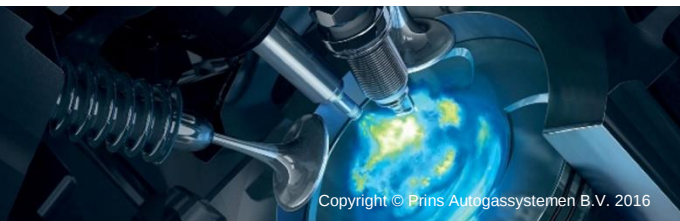
The wire harness is not model specific, therefore it may be necessary to adjust the length of the wires.

Ensure maximum care is taken when connecting wiring.

Make professional joints using solder and shrink sleeve. Do not stretch the wiring harness.

- No component of the LPG-system shall be located within 100 mm of the exhaust or similar heat source, unless such components are adequately shielded against heat.
- If holes have to be drilled (wear safety glasses) for installing brackets, etc., the drilled holes must always be treated with an anti-corrosion agent, after the debris has been removed (especially when mounting an exterior filler into body work).
- After having completed the installation, check the whole system for LPG leakage; use a gas leak detection device. Also check for leak of engine coolant, petrol and air.
- Fitting and maintenance is only allowed by Prins Autogassystemen selected LPG engineers.
- Failure to follow the instructions in this manual can result in a poor or non-working LPG installation or a dangerous situation.
- For maintenance instructions see owner's manual.
- Prins Autogassystemen is not responsible for any damages to people or objects as a result of changes to Prins products.
- [Check our website regularly for diagrams, certificates, updates, info-bulletins and product information.](#)

Register the system (with warranty card) on the [Prins warranty portal](#) within 14 days after installation.



Required equipment / tools / materials for installing a complete system

- Complete workshop toolbox (wrenches, screwdrivers, cutters, pliers, ratchet, sockets)
- Car lift
- Portable computer
- Vehicle fuel system scan tool or OBD scan tool Prins (part nr. 099/99928)
- Exhaust gas analyser
- Multimeter
- Oscilloscope
- Prins diagnostic software
- Prins serial interface
- Torque wrench (5-50Nm)
- Portable light
- Assortment drill bits 4 to 12 mm
- Forstner Ø32 drill
- Assortment cutters Portable drill or pneumatic drill
- Air gun
- Vacuum cleaner
- Safety goggles
- Hot air gun
- Soldering iron, soldering tin
- Wire-stripping pliers
- Adhesive tape
- Adhesive sealant
- Thread locking compound
- Anti-corrosion agent / black body coating
- Gas leak detection device or foam leak spray
- Shrink sleeves

Vehicle check

- Check the vehicle drivability on petrol
- Check the fuel system for error codes (scan tool)
- Check if the catalytic converter is in good condition (exhaust gas analyser)
- Check the condition of the ignition system (spark plugs, cables, coil)

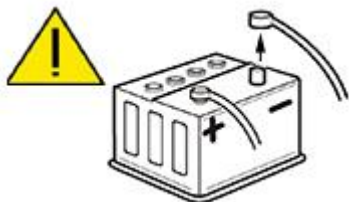
Tightening moments

	Nm	Spanner mm
M 5 x 0,8	6.5	8
M 6 x 1,0	11.3	10
M 8 x 1,25	27.3	13
M 10 x 1,5	54	15-16-17
Banjo bolt	10	14
Supply line connection tank	15	13
Fuel module Allen bolts tank	20	7
Filler hose connection tank	50	22
Boost pump M6 mounting bolts	10	10
FMU M6 mounting bolts	10	10
High pressure petrol fuel line	24-35	17
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EXPLANATION OF SYMBOLS :



= IMPORTANT, CAUTION

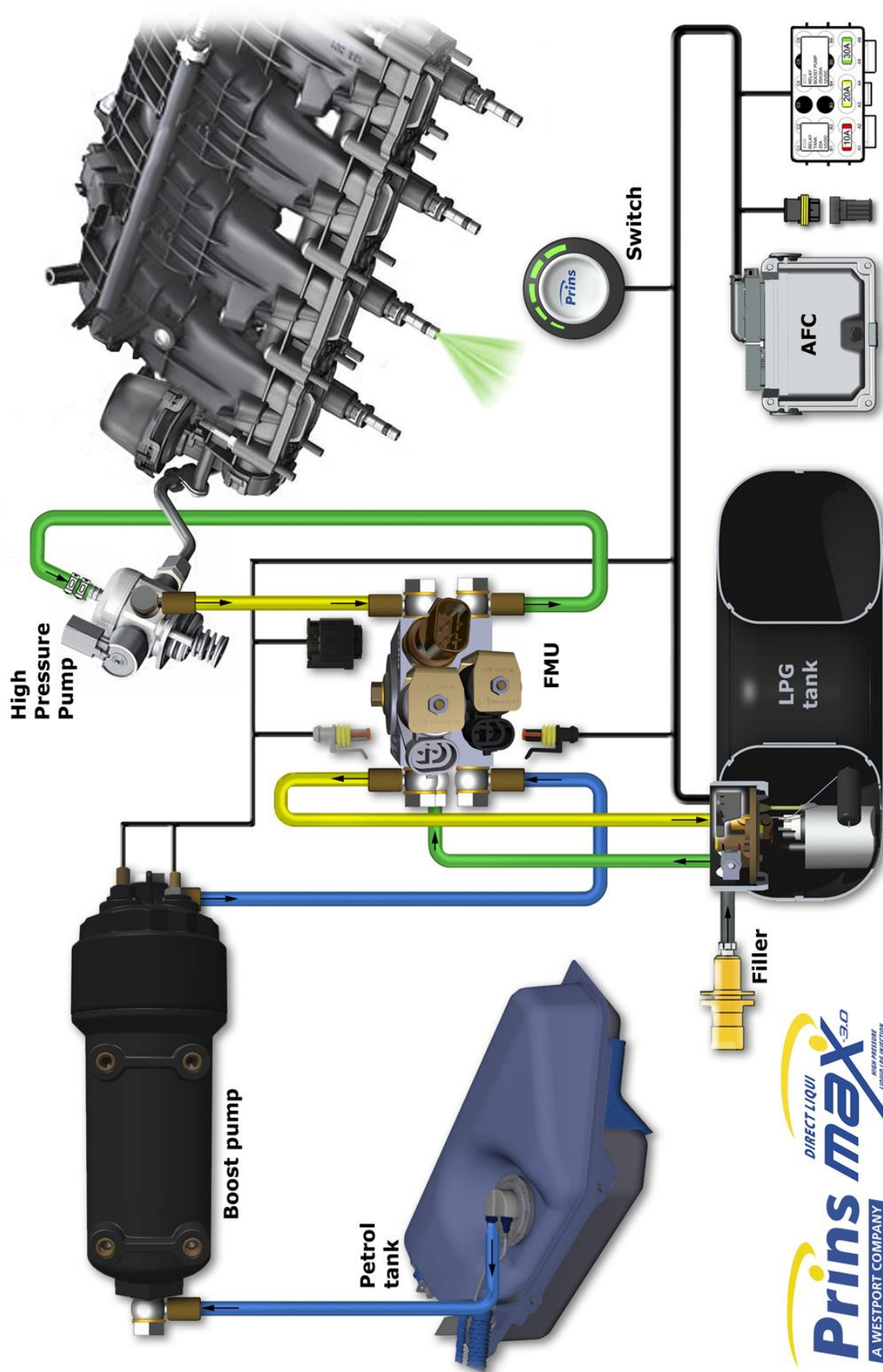


= WEAR SAFETY GOGGLES

Direct LiquiMax parts / approval numbers

	
Fuel Management Unit : E4-67R-010269	Boost pump
	
Prins AFC: E4-67R-010098 E4-10R-030507	High Pressure Pump : E4-67R-010266 High Pressure Rail : E4-67R-010267 High Pressure Injectors : E4-67R-010309
	
	Fuel lines XD- series : E4-67R-010247

Overview DLM Direct Injection



Fuel Management Unit connections



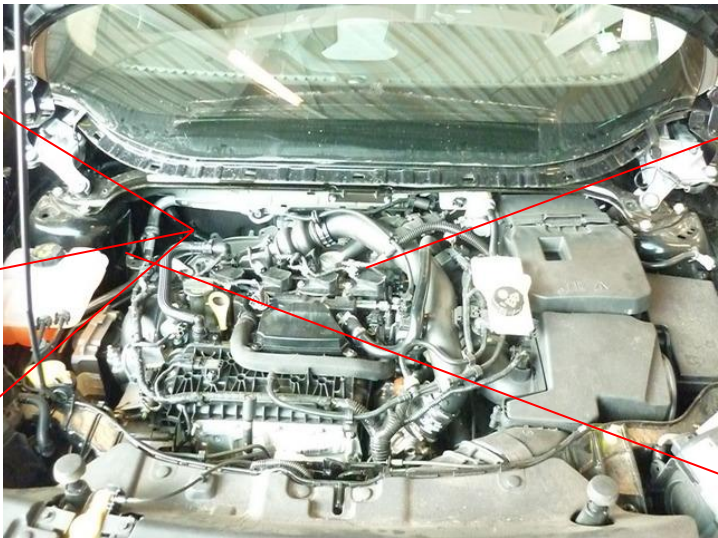
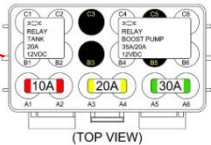
Fuel Management Unit



Boost pump



DLM component location overview

AFC 		HPP pump 
FMU 		
Boost pump 		Fuse / relay box 

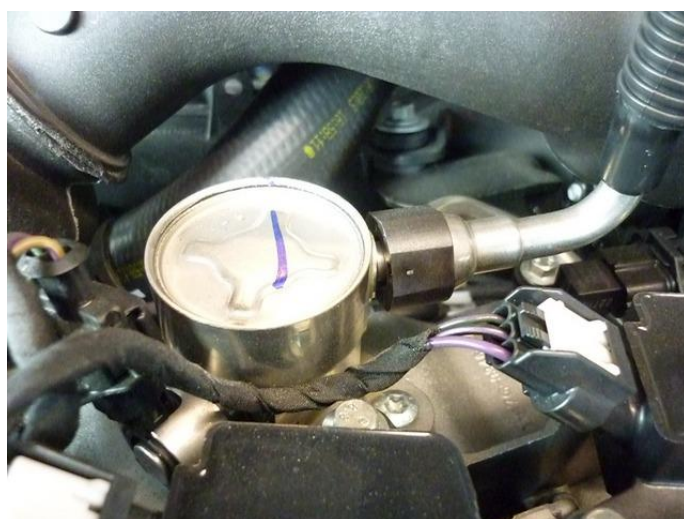
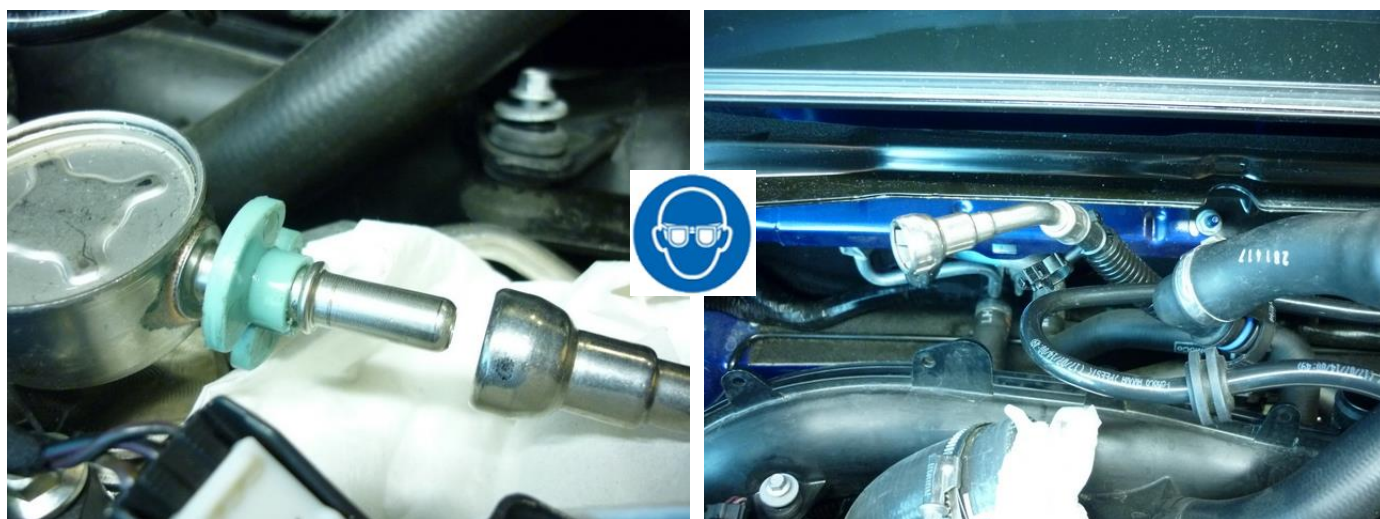
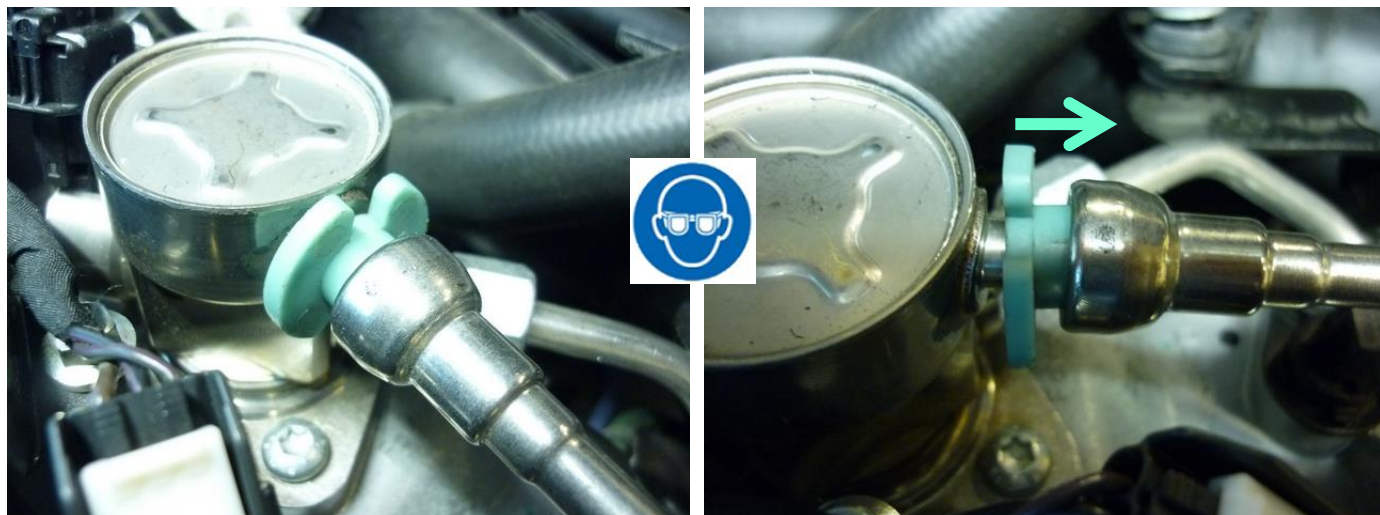
	i.a.R115 approval sticker : Right side centre door post
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Preparation



Preparation, remove wiper box (only Kuga / Focus)

Fuel supply disconnection



Mondeo: Easy Quick Release, special tool not needed.

Removal filter and inlet pipes



Kuga / Focus filter box



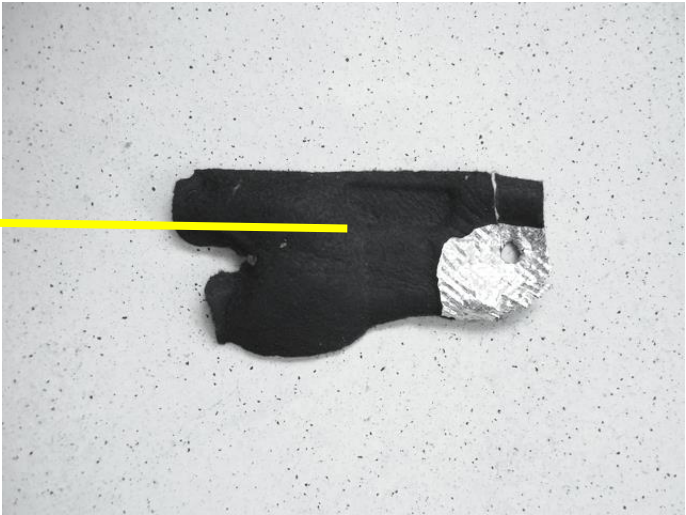
Remove inlet pipes and block hose inlets and turbo inlet.

Preparation (only Kuga / Focus)

Remove battery and battery box.



Preparation (only Kuga / Focus)



Cut away fabric.



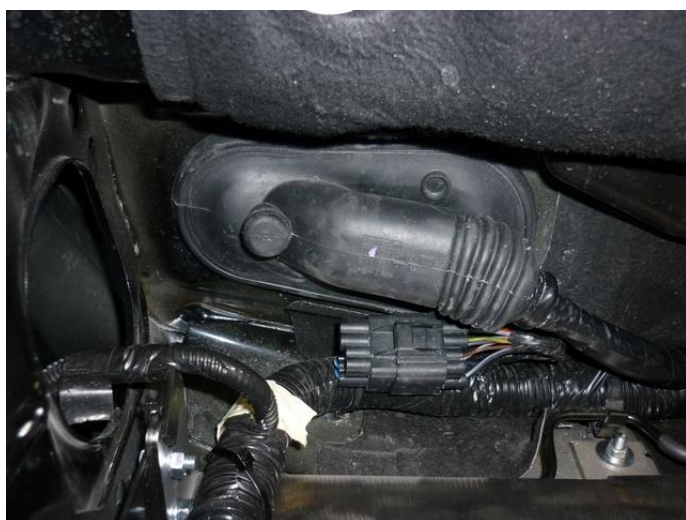
Preparation (Mondeo)



Cut away fabric.



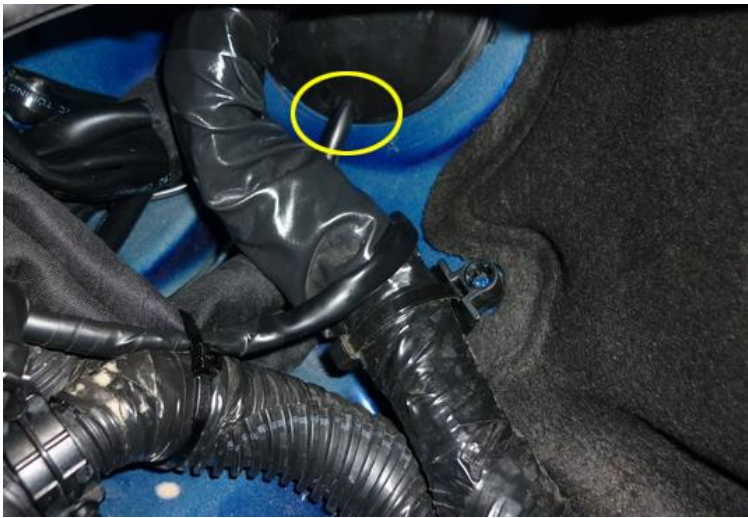
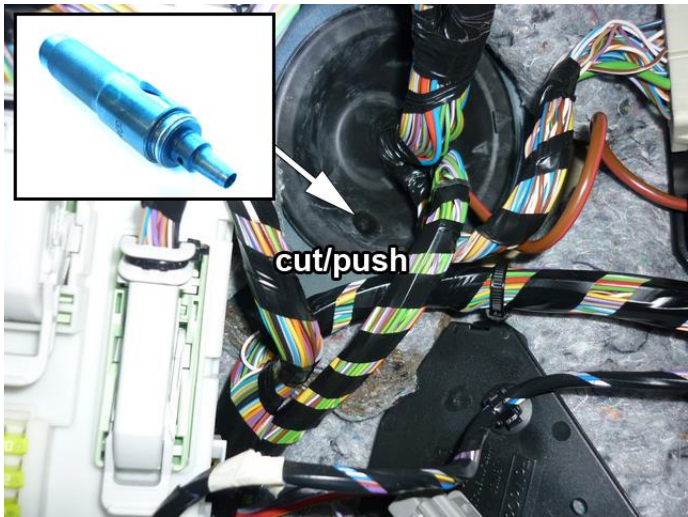
Remove petrol ecu with support bracket.



Switch wiring grommet

Preparation (only Kuga / Focus)

Remove glove compartment



Removal of the High Pressure Petrol Pump

REMOVAL-

WARNING-

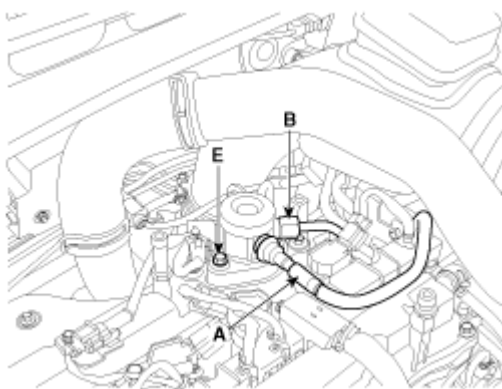
In case of removing the high pressure fuel pump, high pressure fuel pipe, delivery pipe, there may be injury caused by leakage of the high pressure fuel.

Don't do any repair work right after engine stops (HOT engine).

- Turn the ignition switch OFF and disconnect the battery negative (-) cable.
- Wear safety goggles.
- Disconnect the fuel pressure regulator valve connector
- Disconnect the High Pressure fuel feed pipe (B)
- Remove the Low Pressure fuel pipe / hose (A).
- Remove the installation bolts (E), and then remove the high pressure fuel pump from the cylinder head assembly.

CAUTION:

Unscrew in turn the two bolts in small steps (0.5 turns). In case of fully unscrewing one of the two bolts with the other bolt installed, the housing surface of the cylinder head may break because of tension of the pump spring.



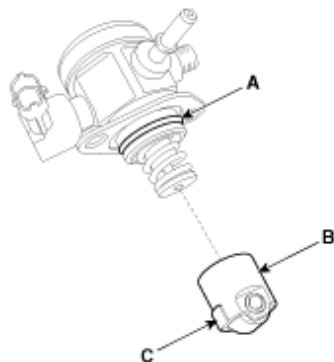
CAREFULLY store the removed petrol pump. Make sure no pollution can come into the pump.

Installation of the High Pressure Petrol Pump

INSTALLATION-

Before installing the high pressure fuel pump, position the roller tappet (**B&C**) in the lowest position by rotating the crankshaft. Otherwise the installation bolts may be broken because of tension of the pump spring.

Apply engine oil to the O-ring (**A**) of the high pressure fuel pump, the roller tappet (**B**), and the protrusion (**C**).
(roller tappet, only if removed from cylinder head)
Also apply engine oil to the groove on the location where the protrusion (**C**) is installed.



Installation bolts:

When tightening the installation bolts of the high pressure fuel pump, tighten and turn the bolts in small step (0.5 turns) after tightening them with hand-screwed torque.

Torque for high pressure petrol pump installation bolts with the new gasket and the plastic bushings: **7Nm**.



Mount the bolts with a drop of locking compound (like ThreeBond 1305).

Petrol pipe:

First hand-tighten the nut(s) fully until they are not fastened any more in order to have them inserted in place and then completely tighten to the specified torque using a torque wrench.

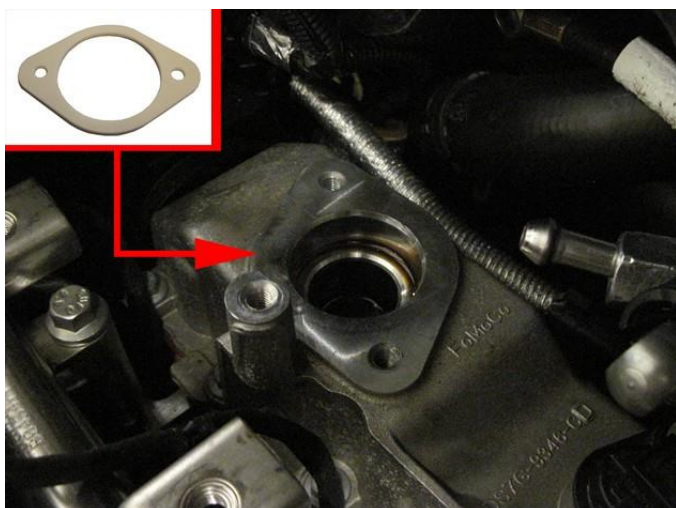
If not tightening the bolts or nuts in a straight line with the mating bolt holes or fittings, it may cause a fuel leak due to broken threads.

High pressure petrol pipe installation nut: 26.5 ~ 32.4 Nm

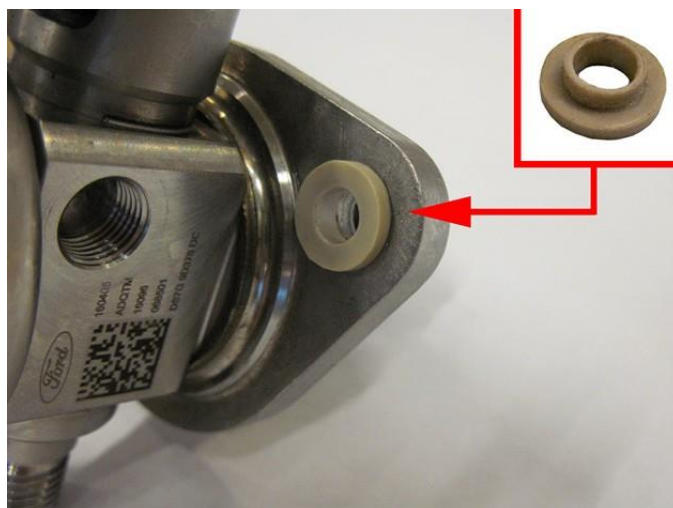
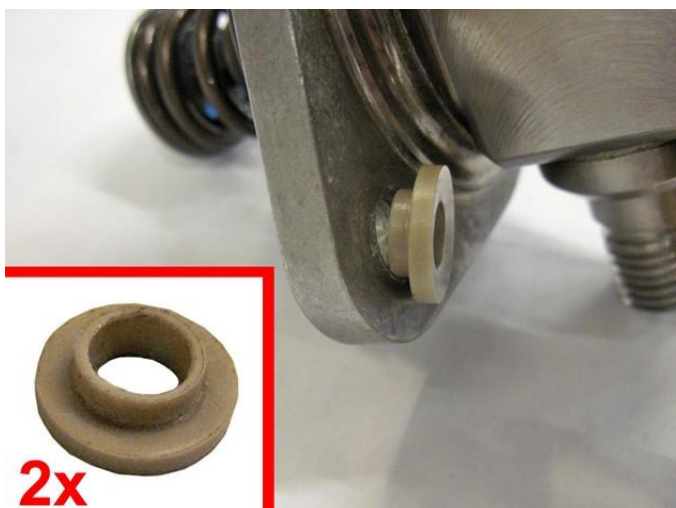
Installation is reverse of removal.

High pressure petrol pump installation

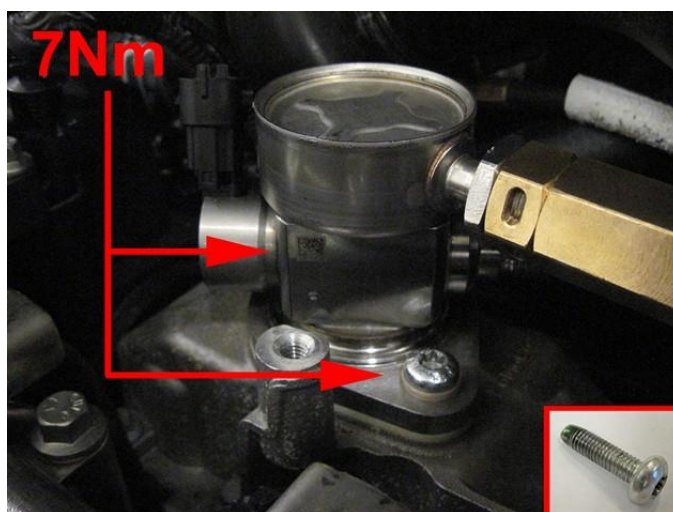
Replace the original high pressure petrol pump for the adapted high pressure petrol pump



Place the gasket between the cylinder head and the high pressure pump.

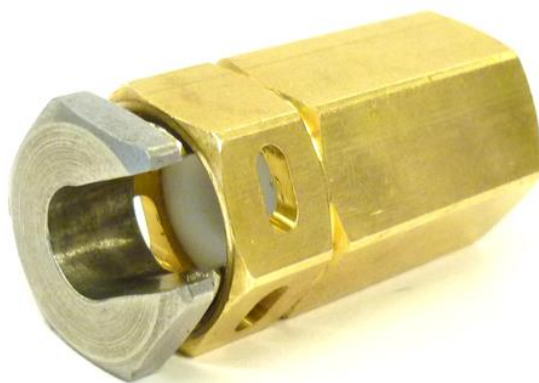


Install the bushings in the left and right mounting hole of the high pressure pump.



Mount the bolts from the high pressure pump with a locking compound (like ThreeBond 1305) and use torque **7Nm.**

High pressure petrol pump Supply



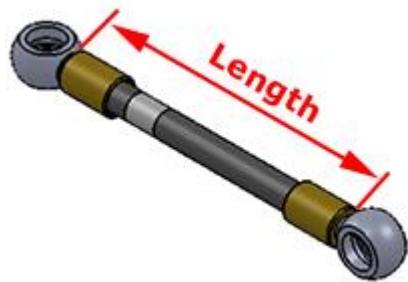
No locking clip needed.



20Nm

LPG / petrol fuel lines

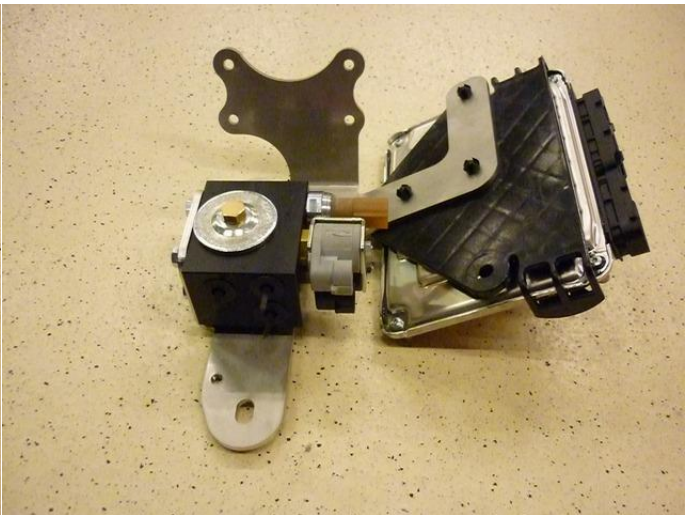
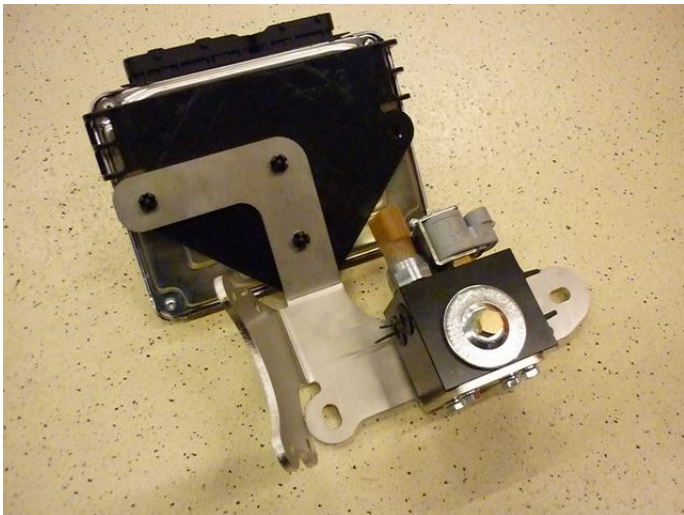
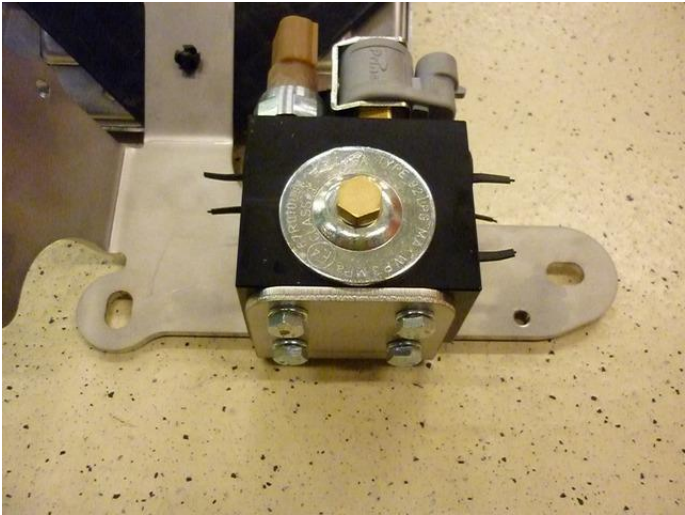
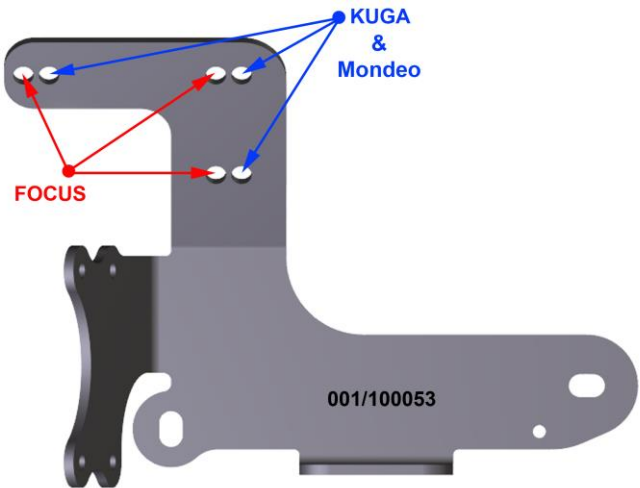
	Hose	from	to	Length (cm)
1	XD-4 quick release	Adapter original petrol hose	Boost pump in	45
2	XD-3	Boost pump out	FMU petrol supply	20
3	XD-3	FMU HPP supply	High pressure pump	80
4	XD-3	FMU HPP return	High pressure pump	85
5	XD fuel supply line	FMU LPG supply	Tank	450
6	XD fuel return line	FMU LPG return	Tank	450



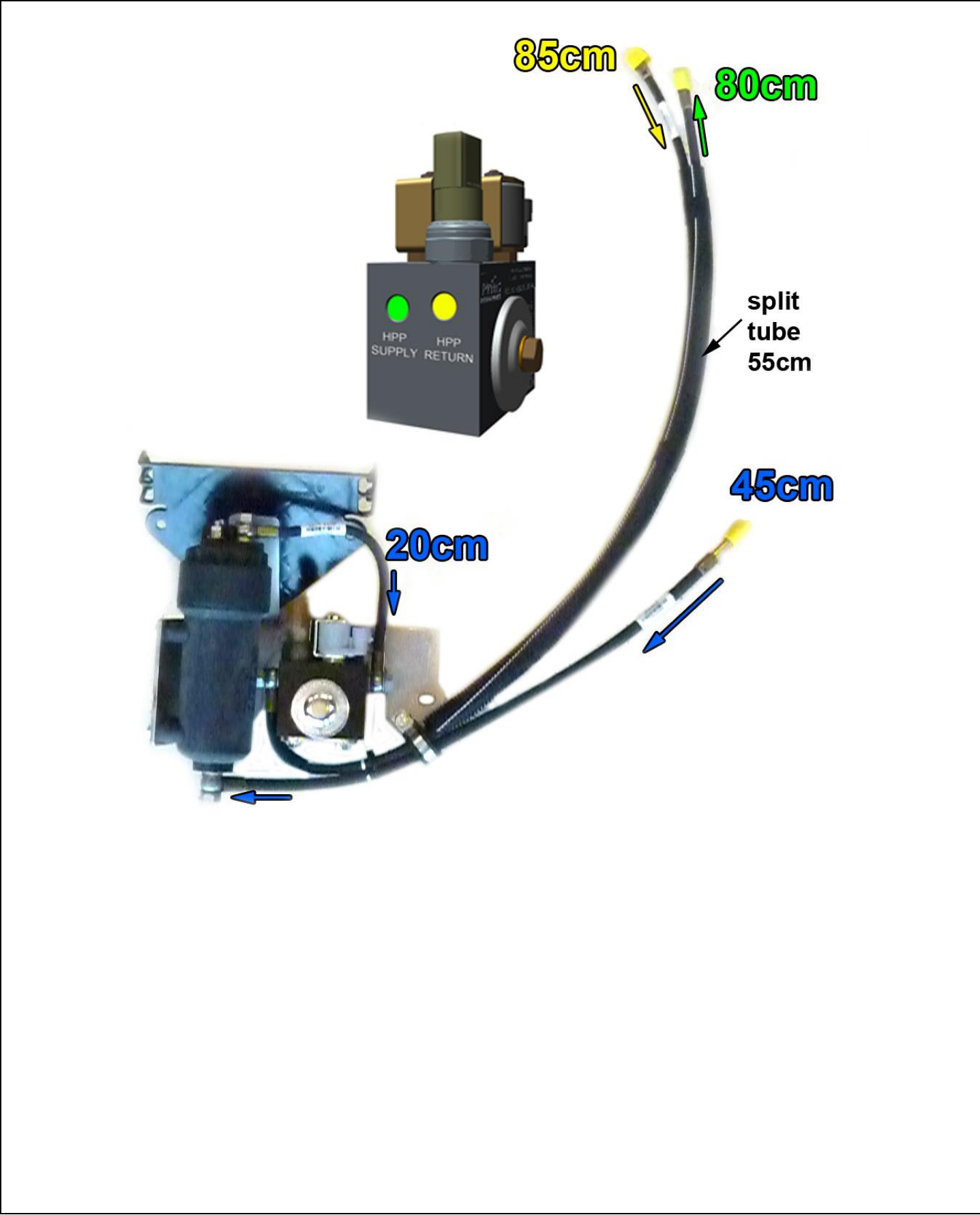
Install the fuel line using two bonded seal washers and banjo bolt :



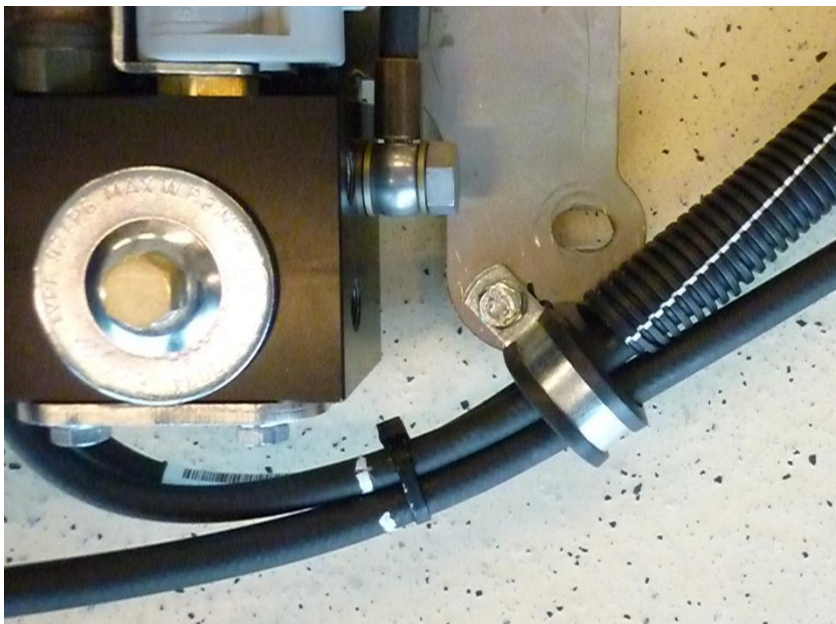
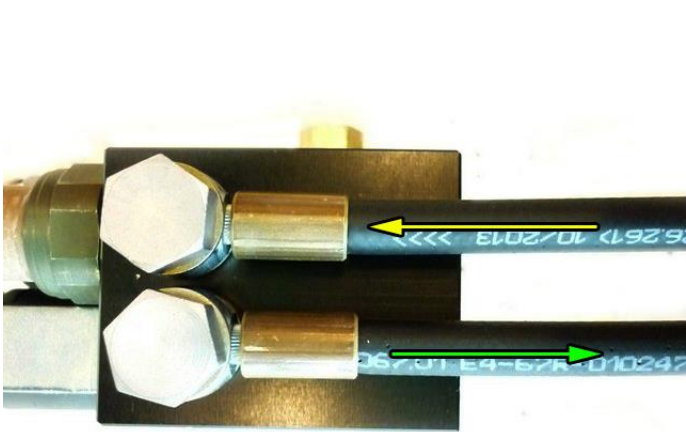
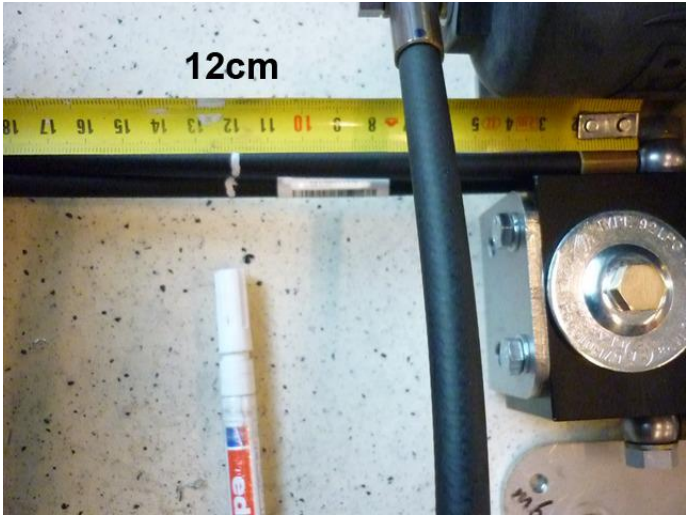
FMU / AFC assy



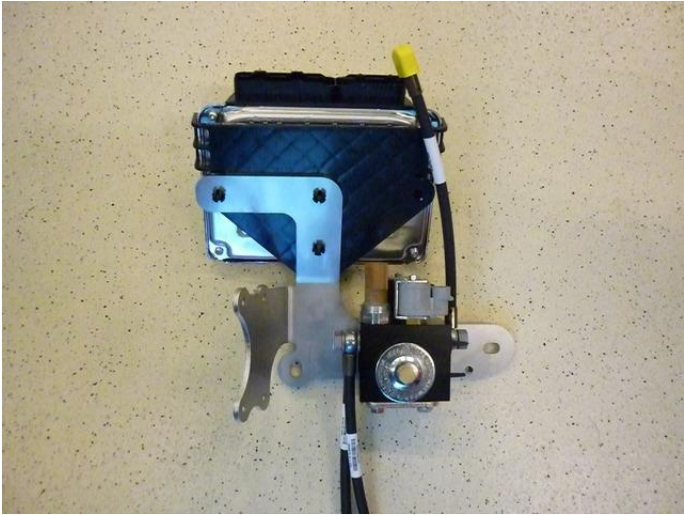
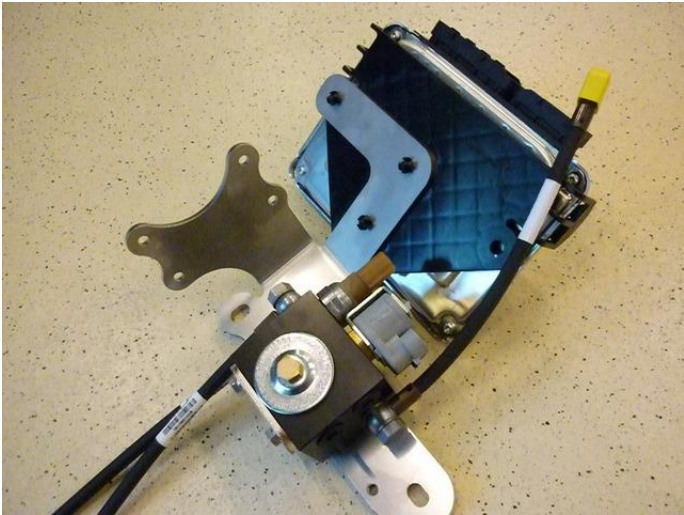
Assembly with boost pump



Hose Assembly with boost pump



Assembly with boost pump

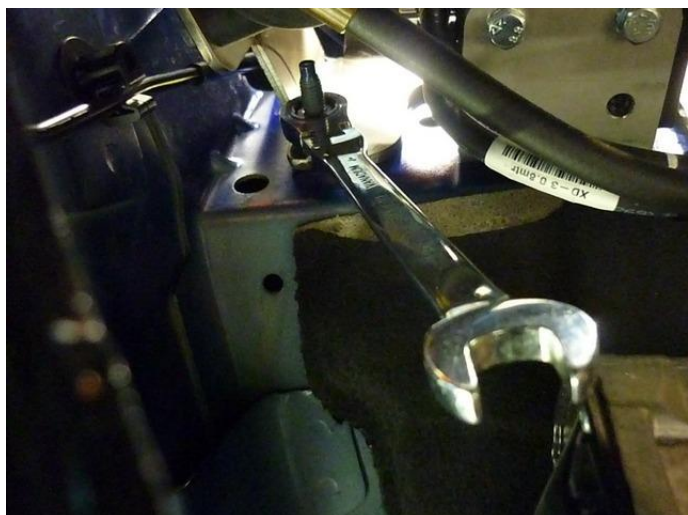


Hose assembly with boost pump



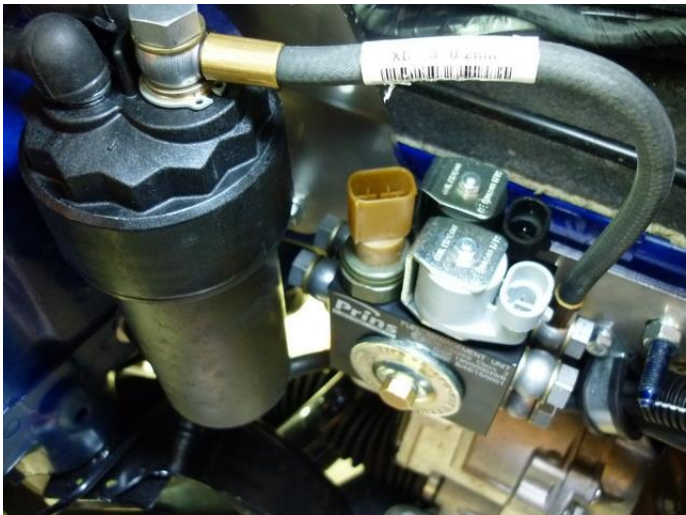
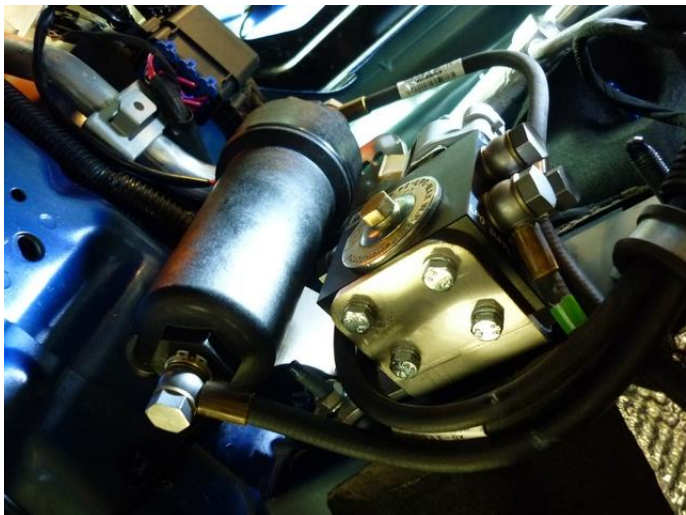
Assembly installation (only Focus & Kuga)

Remove under engine cover.
Installation assembly from underneath the vehicle.

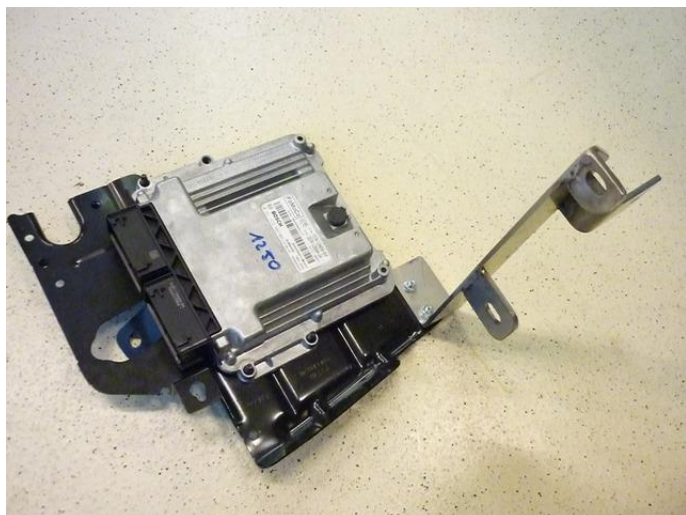


See chapter : Original fuel line re-route (only Focus & Kuga)

Assembly installation (only Focus & Kuga)



Sub bracket installation (Mondeo)



Mount sub bracket and re-install ECU support bracket.

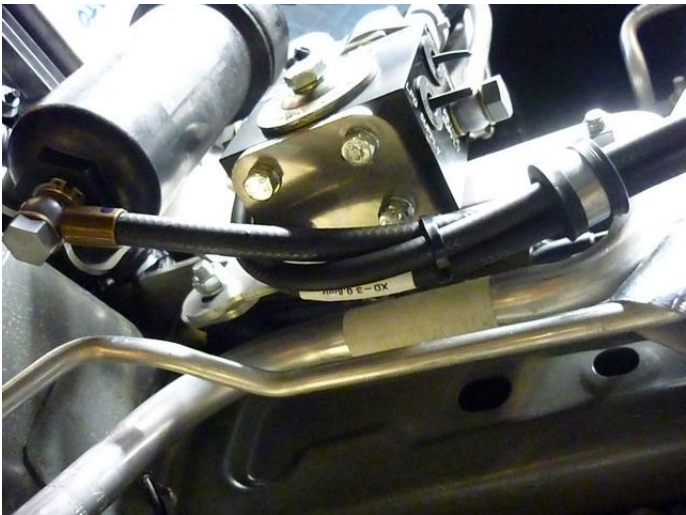


Use a flex magnet to install the Allen bolt.



Use an Allen key and a 10mm wrench to tighten the bracket.

Assembly installation (Mondeo)



Original fuel line re-route (only Focus & Kuga)



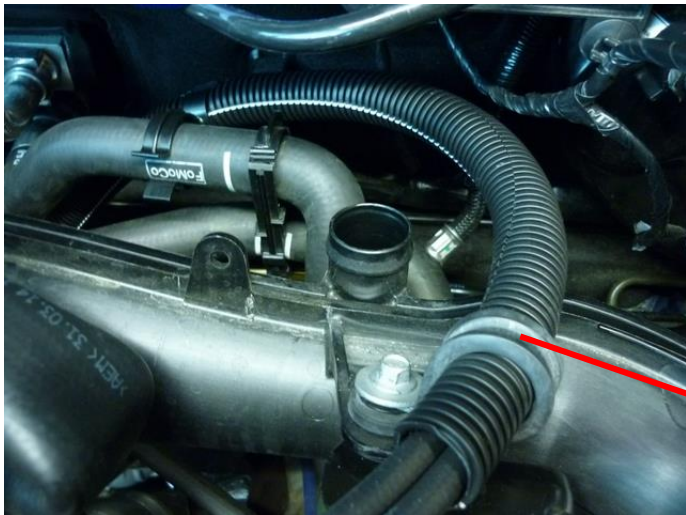
Original fuel line re-routing (Mondeo)



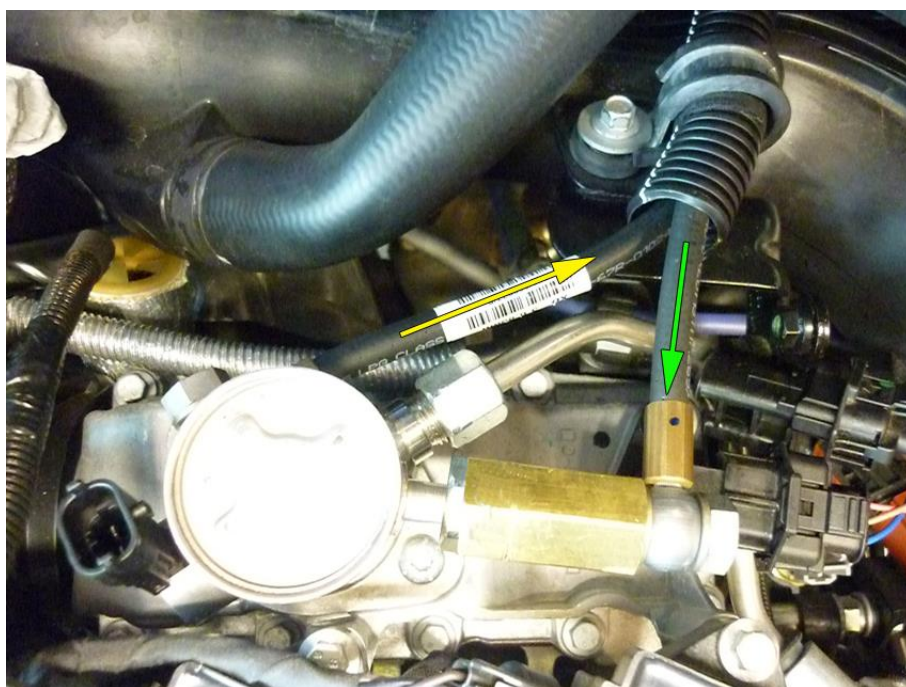
Secure fuel hose with cable tie to the hose clamp.

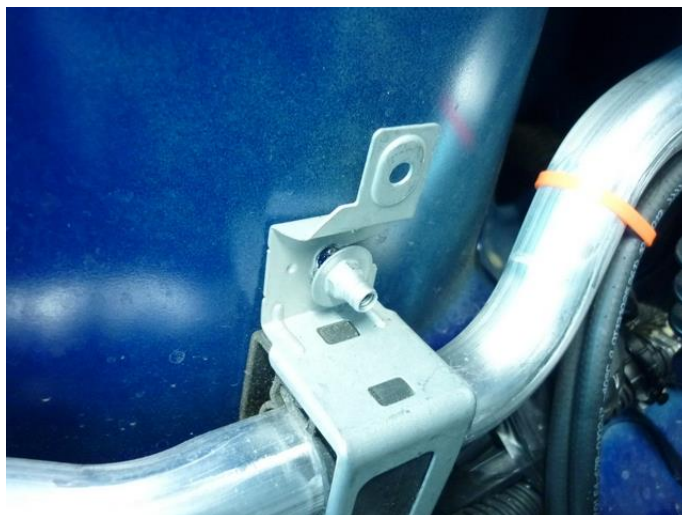


Supply hose – Return hose – HPP Pump (only Focus & Kuga)



HPP pump connection (Focus & Kuga & Mondeo)



Mounting the fuse / relay box bracket (only Focus & Kuga)

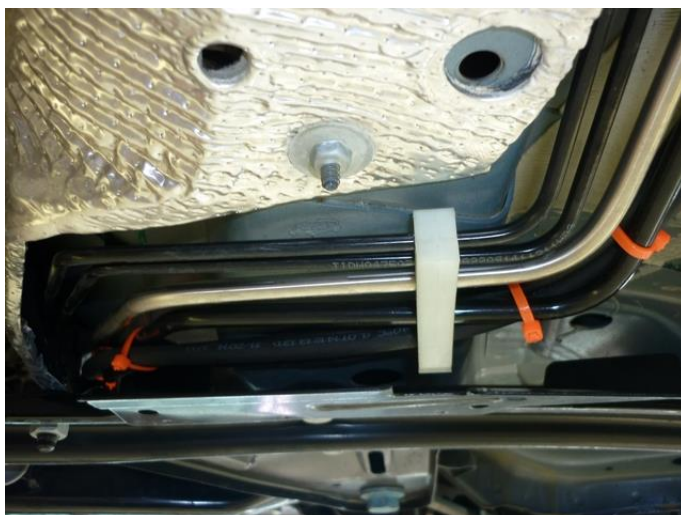
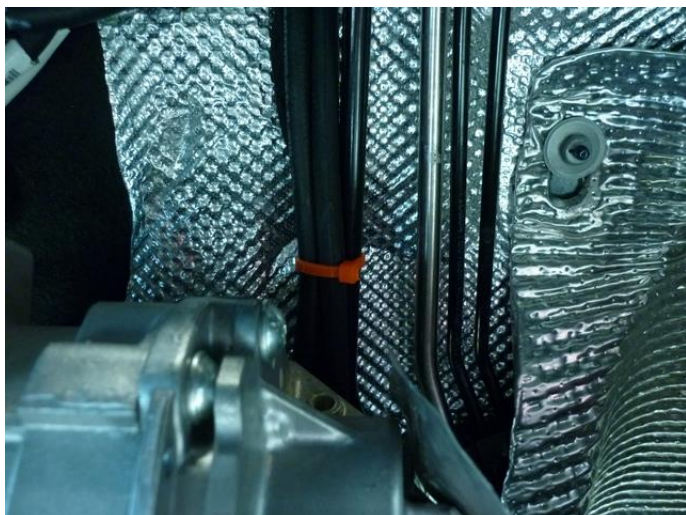
Mounting the fuse / relay box bracket (Mondeo)



Tank fuel lines and wiring



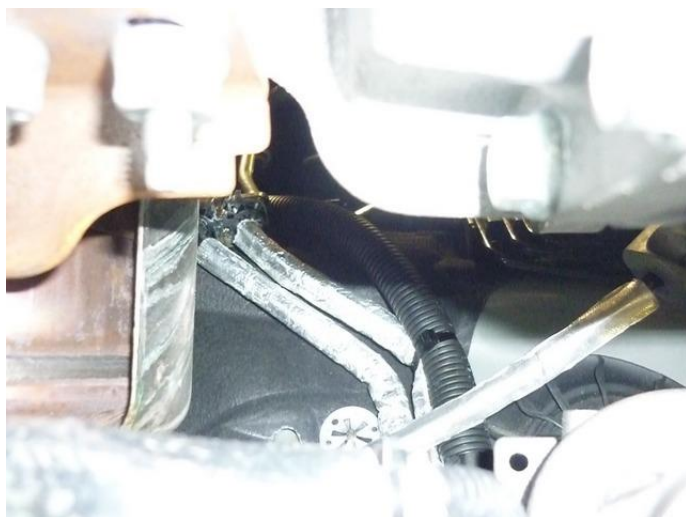
Tank fuel lines and wiring (only Focus & Kuga)



Tank fuel lines and wiring (only Focus & Kuga)



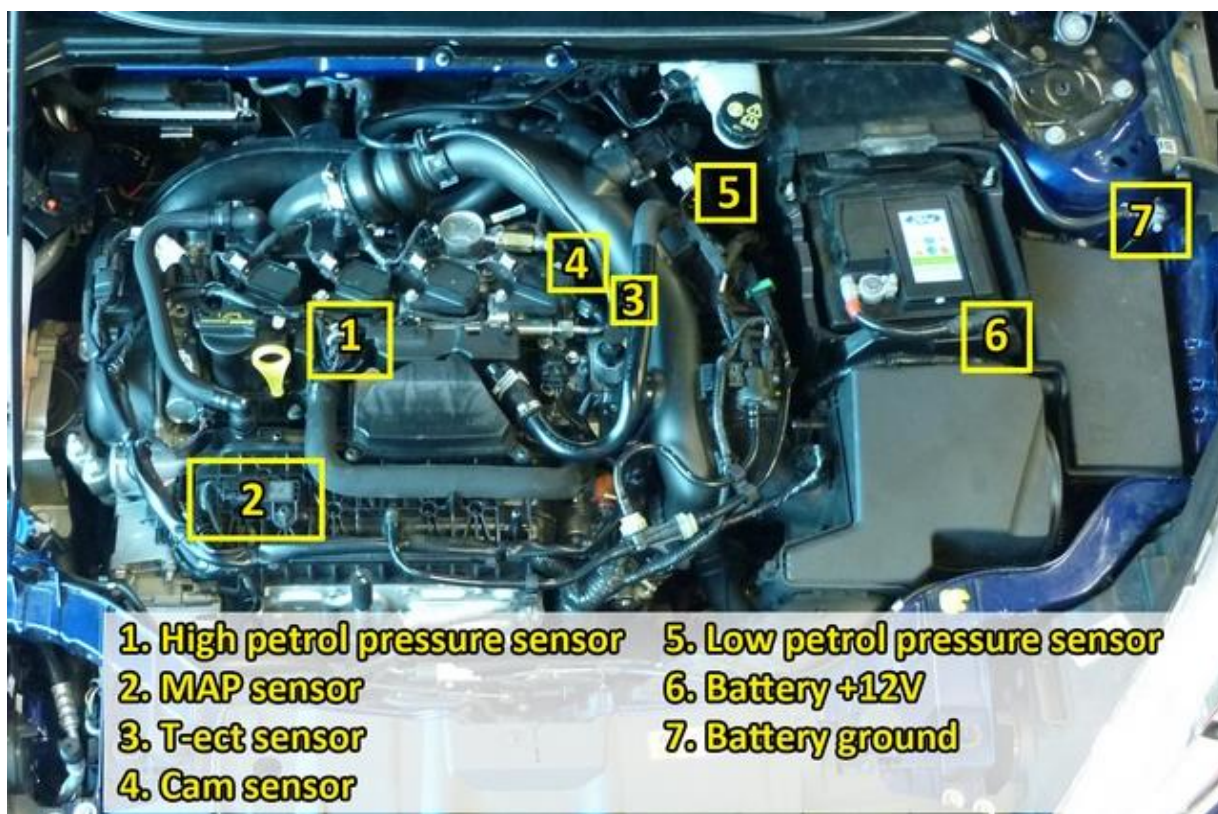
Tank fuel lines and wiring (Mondeo)



Tank fuel lines and wiring (Mondeo)



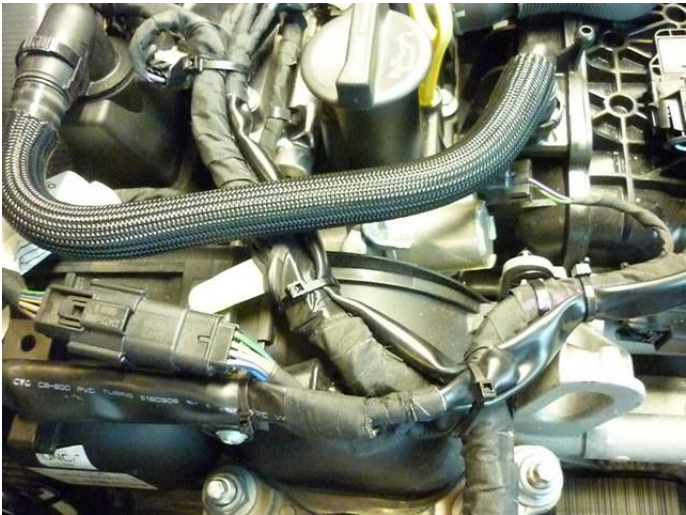
Wiring AFC



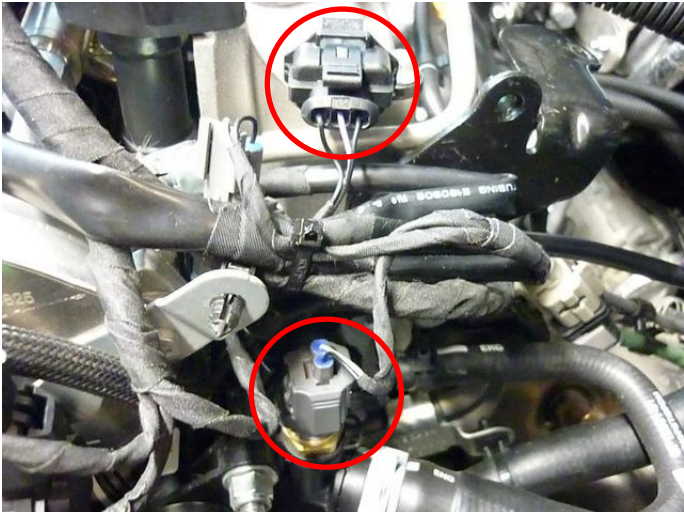
Wiring (only Focus & Kuga)



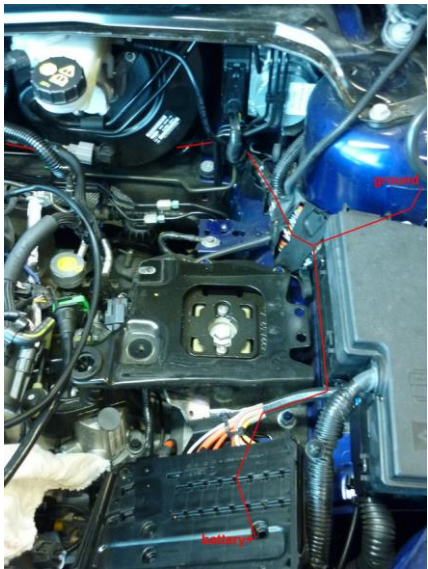
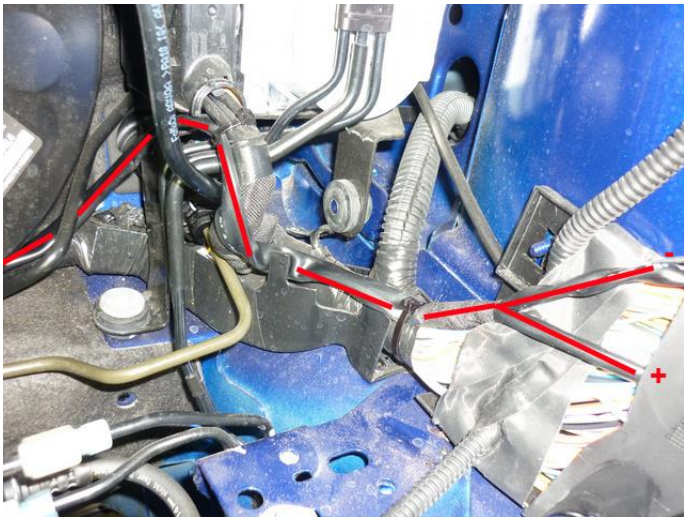
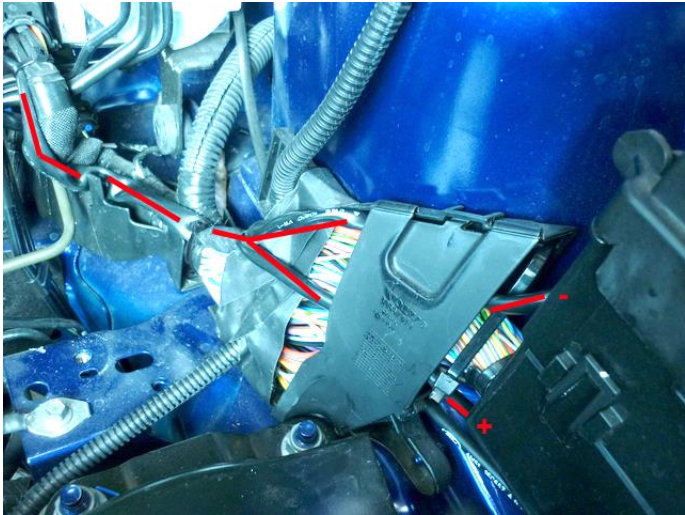
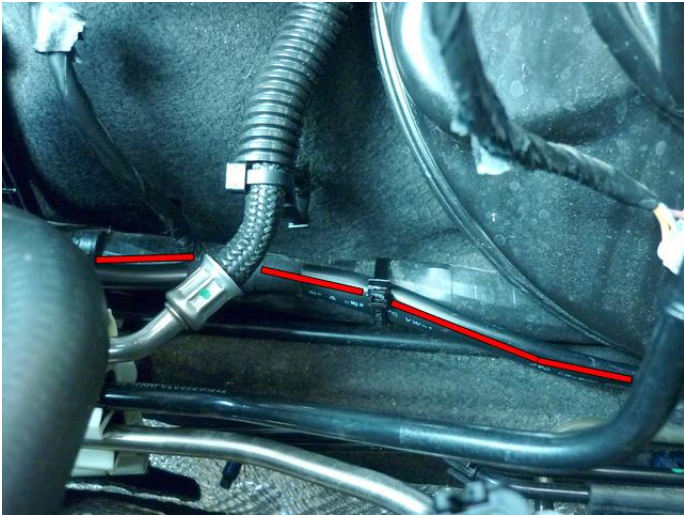
Wiring (Mondeo)



Wiring (Mondeo)

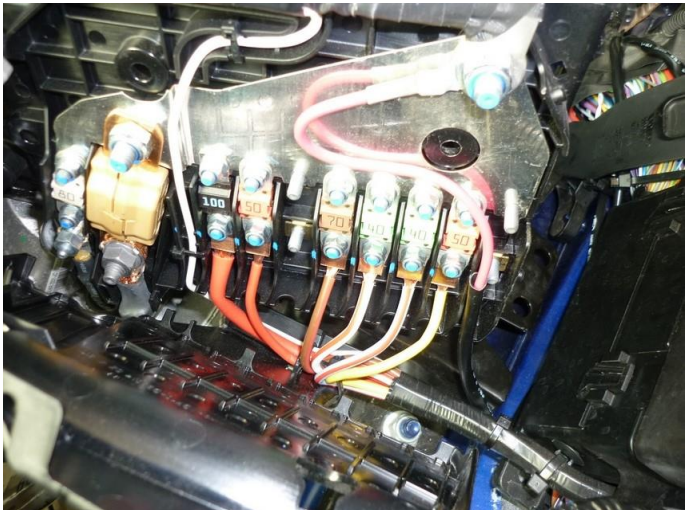


Wiring +12V Supply / Ground (only Focus & Mondeo)



Ground. Kuga, Focus & Mondeo.

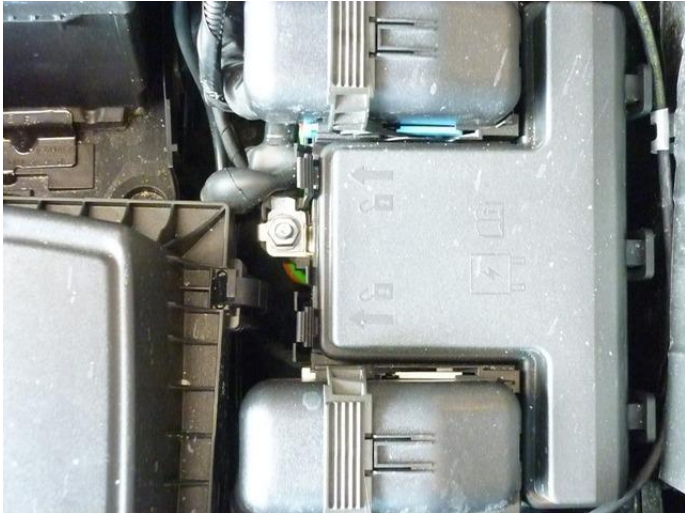
Wiring +12V Supply



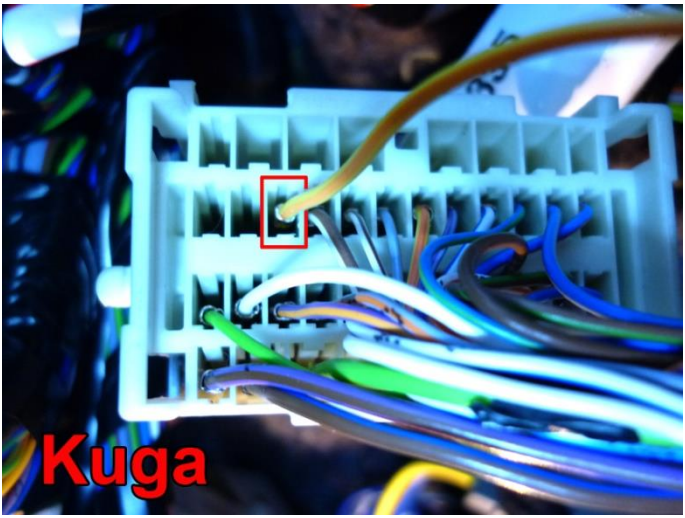
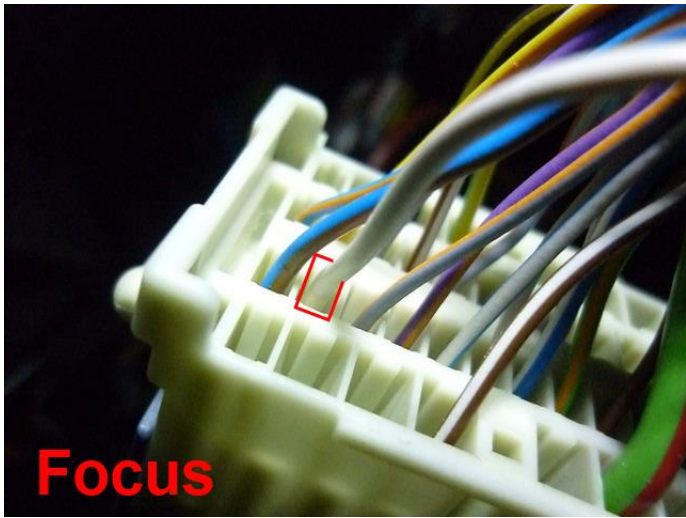
Focus & Kuga.



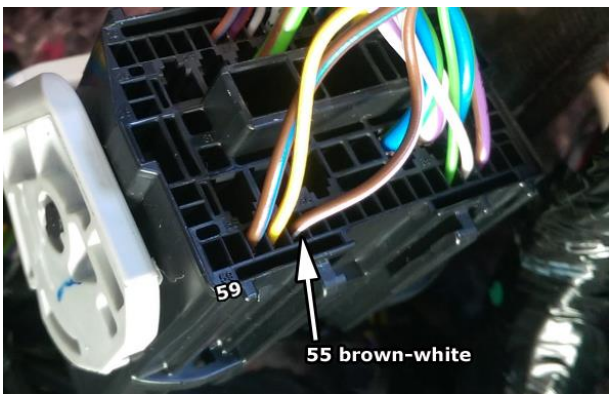
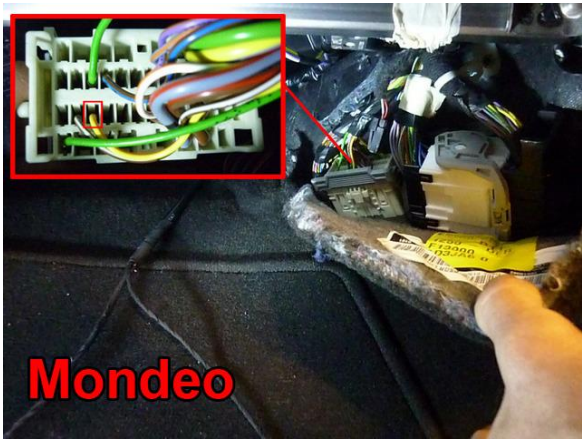
Mondeo.



Wiring inside – DIG IN2



			Digital Input 2, OEM petrol pump driver, PWM IN
			Wire colour / position : see picture, yellow-orange
56	DIG IN2		Yellow-green

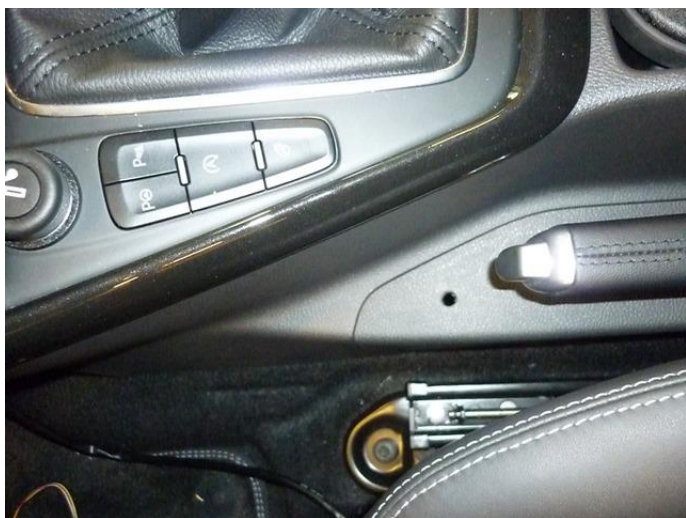


PWM 2017 model, black connector
PWM M9ME yellow-orange, pin 56



Mounting the fuel selection switch - Focus

Mount the switch, drill hole Ø8,3mm.





Mounting the fuel selection switch - Kuga option 1 (ring)

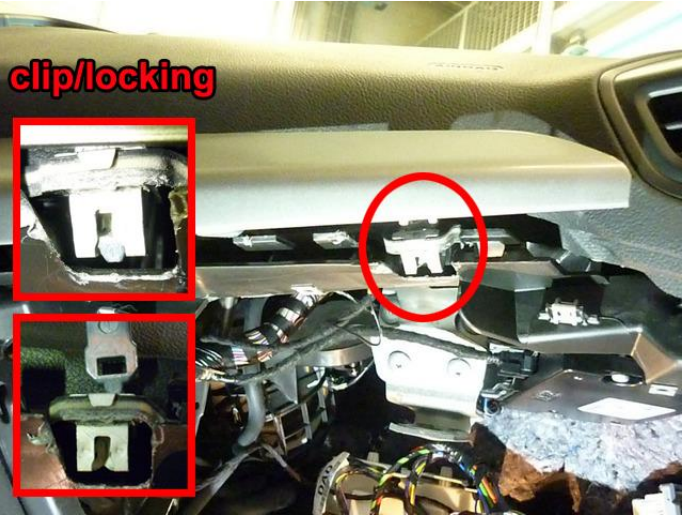
Mount the switch, drill hole Ø8,3mm.



Mounting the fuel selection switch – Kuga option 2 (recessed)



Mounting the fuel selection switch – Kuga option 2 (recessed)



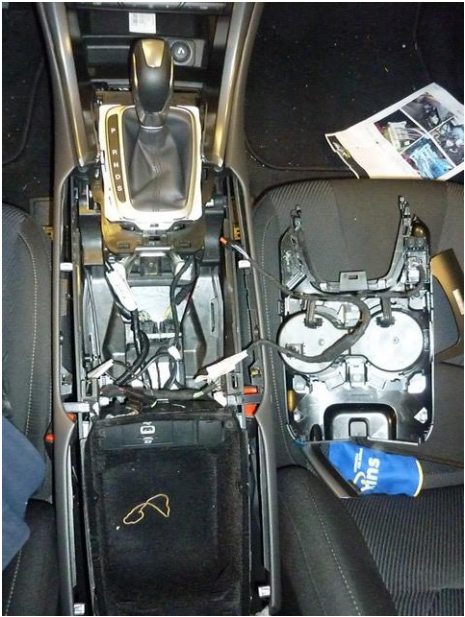
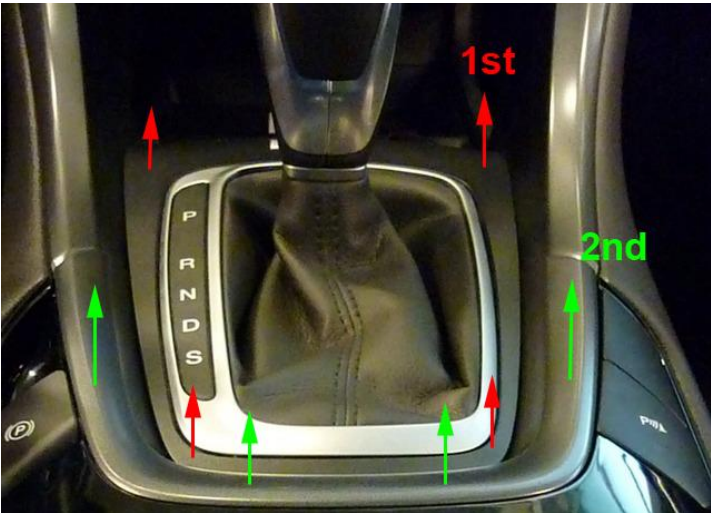
Mounting the fuel selection switch – Kuga option 2 (recessed)



Mounting the fuel selection switch – Kuga option 2 (recessed)



Mounting the fuel selection switch - Mondeo





Mounting the fuel selection switch – Mondeo (2 options)

On top:

Mount the switch, drill hole Ø8,3mm.



Or recessed:

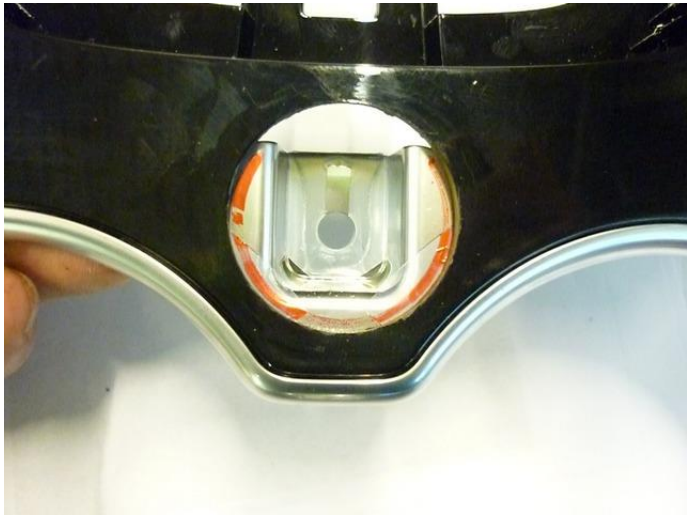


See next page

Mounting the fuel selection switch - Mondeo (recessed)



Mounting the fuel selection switch - Mondeo (recessed)



Mounting the fuel selection switch - Mondeo (recessed)



EOBD Focus & Kuga

Focus :



Kuga:

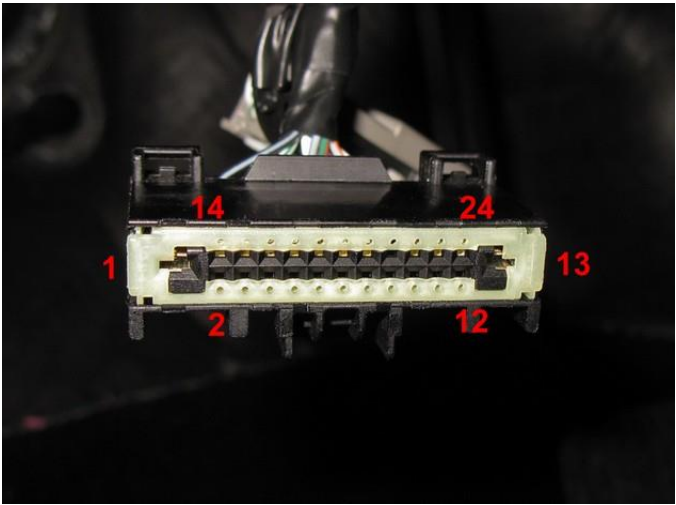


51	CAN-High	Yellow	EOBD connector pin 6
70	CAN-Low	Green	EOBD connector pin 14

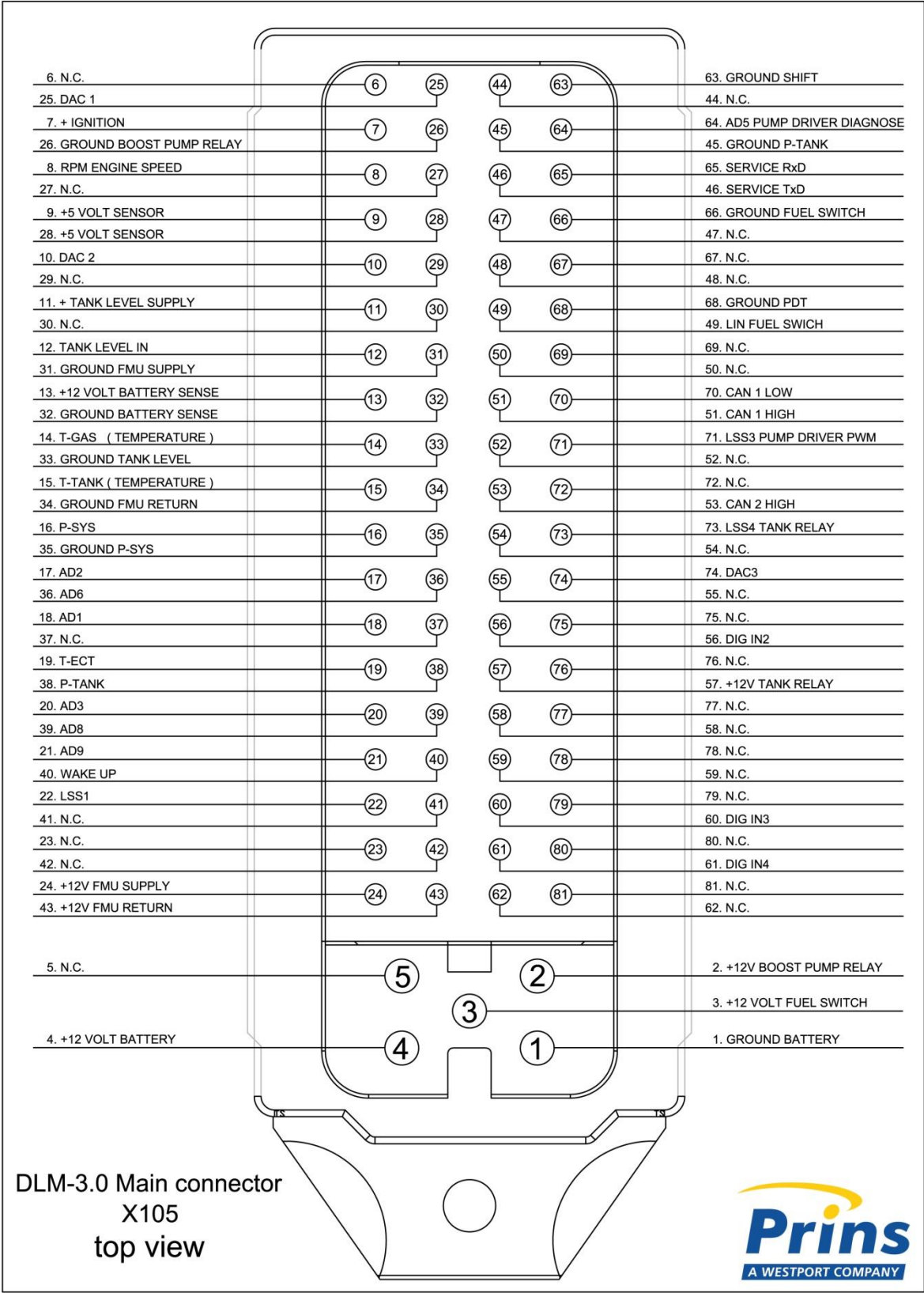
EOBD Mondeo



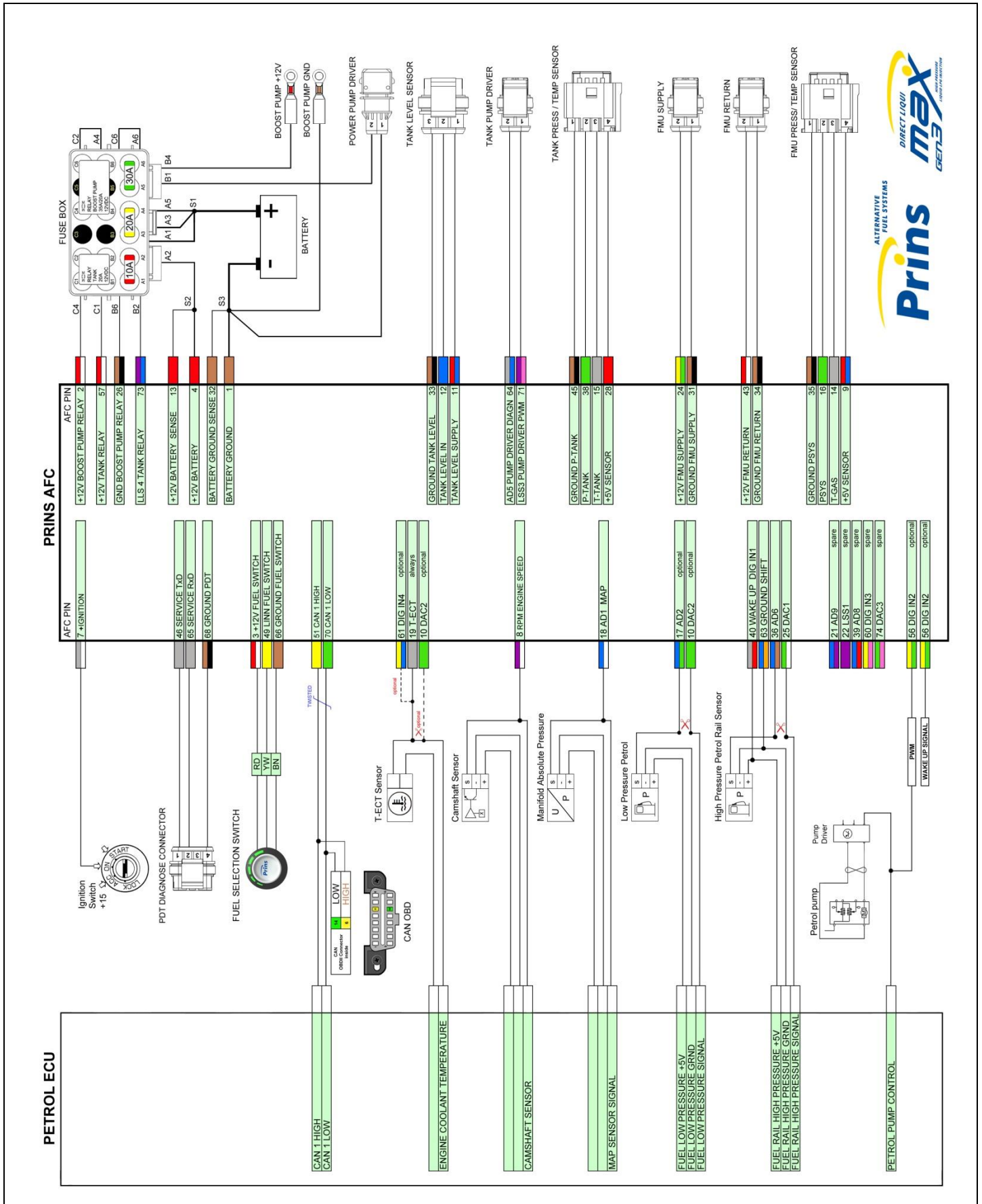
51	CAN-High	Yellow	EOBD connector Pin 20 blue-black
70	CAN-Low	Green	EOBD connector Pin 19 white



Main Connector

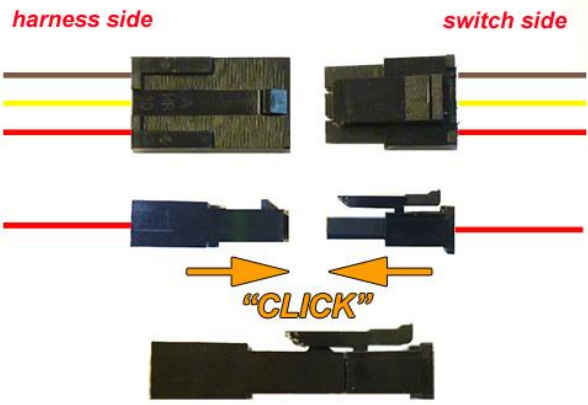


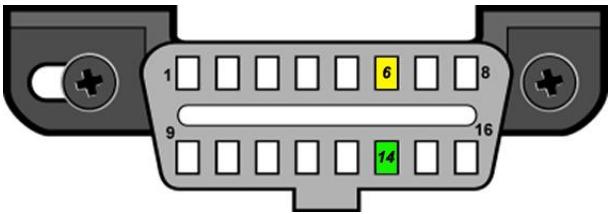
Basic DLM Gen3 wiring diagram



Electrical connections- inside driver room

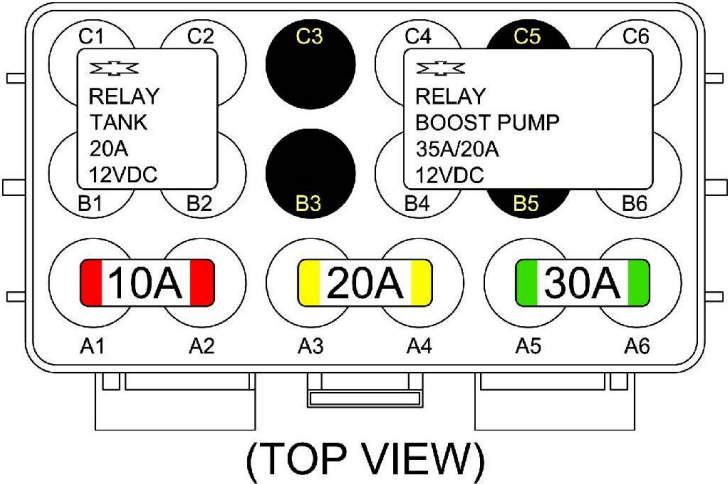
Wire number / code	Wire colour	Connection
56 DIG IN2	 Yellow-green	Digital Input 2, OEM petrol pump driver, PWM IN Wire location : behind / under glove compartment See pages: Wiring Inside – DIG IN2 This depends on the vehicle.

3-pole micro connector 66 Ground fuel switch 3 +12V fuel switch 49 LIN fuel switch	Brown-black Red-white Yellow	Connect the 3-pole connector to the Prins fuel selection switch.
		

51 CAN-High	Yellow	EOBD connector pin 6 / Mondeo Pin 20 blue-black
70 CAN-Low	Green	EOBD connector pin 14 / Mondeo Pin 19 white
		

Electrical connections Ground / Battery+

Wire text	clr	Wire colour	Connection
1			Connect to the '-' of the battery (-31) ; use a ring terminal. 
1 BATTERY GROUND		Brown	
4			Connect to the '+' of the battery (+30) ; use a ring terminal. Do not place the fuses before having completed the installation of the lpg system. 
4 +12V BATTERY		Red	



**** Do not place the fuses in the holder before having completed the installation of the LPG system ****

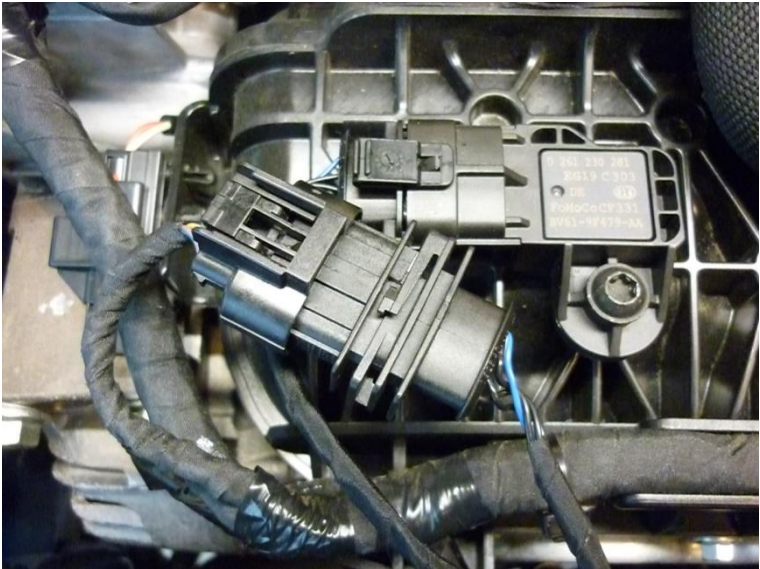
Electrical connections high pressure petrol sensor signal

Wire text	clr	Wire clr	Connection
			High pressure petrol sensor signal interruption (petrol rail)
36 AD 6		Blue-brown	Sensor side, Wire location : pin 3
25 DAC 1		Green-white	Petrol ecu side, Wire location : pin 3, blue-purple
			High pressure petrol sensor ground (petrol rail)
63 Ground Shift		Blue-orange	Wire location : pin 2, grey-purple
			High pressure petrol sensor supply (petrol rail)
			Do not place the fuses in the holder before having completed the installation of the LPG system.
7 +IGNITION		Grey-white	Wire location : pin 1, brown-purple



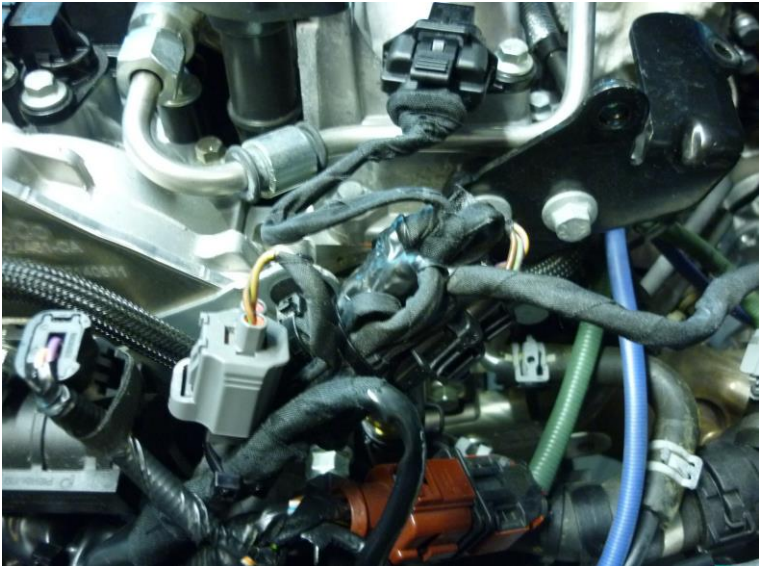
Electrical connections Map Sensor

Wire text	clr	Wire clr	Connection
			Analog in (sensor side) MAP sensor signal.
18 AD 1		Blue-white	Wire location : pin 4, green-brown



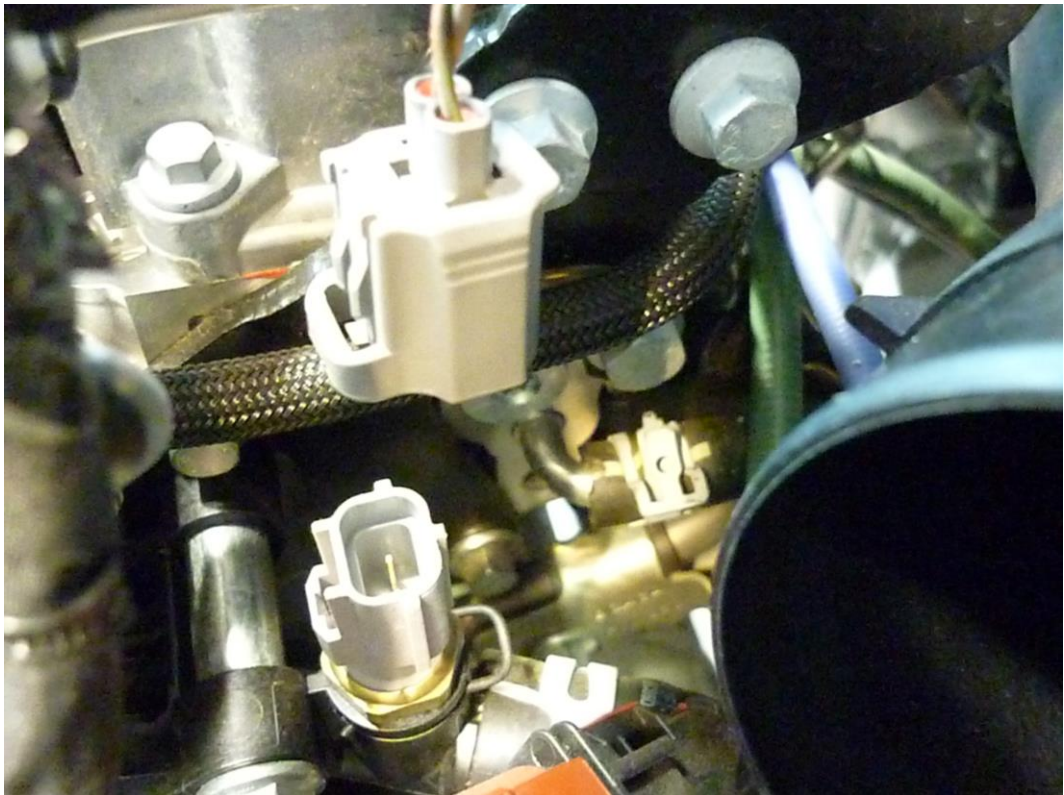
Electrical connections Engine RPM

Wire text	clr	Wire clr	Connection
			For measuring the engine speed signal.
8 RPM		Purple-white	Wire location : exhaust cam sensor, pin 2, green-purple



Electrical connections Engine coolant sensor

Wire text	clr	Wire clr	Connection
			For measuring the engine coolant temperature.
19 T-ect		Grey	Wire location : pin 1, yellow



Electrical connections Low pressure petrol sensor signal

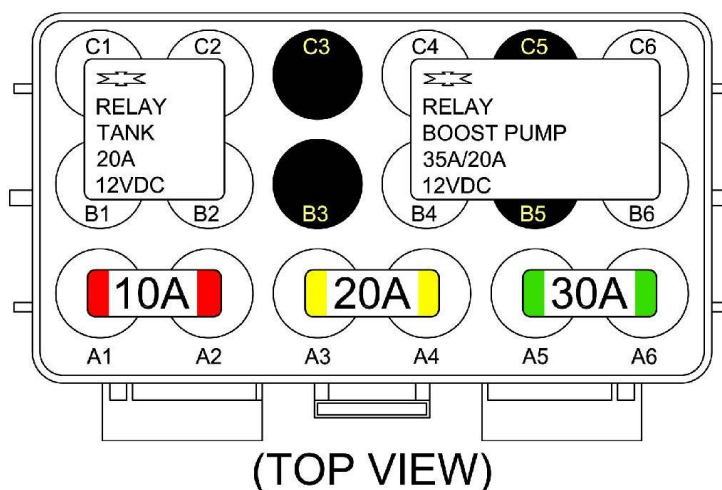
Wire text	clr	Wire clr	Connection
			Low pressure petrol sensor signal interruption
17 AD 2		Blue-green	Sensor side, Wire location : pin 1
10 DAC 2		Green	Petrol ecu side, Wire location : pin 1, brown-blue



Electrical connections

Engine room

Wire number / code	Wire colour	Connection
4-pole FMU P/T sensor 1. 35 Ground P-Sys 2. 16 P-Sys 3. 14 T-Sys 4. 9 +5V sensor	Brown-black Green Grey Red-blue	Connect the 4-pole connector to the P/T sensor.
2-pole black connector FMU 24 +12V FMU supply 31 Ground FMU supply	Yellow-green Brown-black	Connect the 2-pole connector to the black lock-off valve of the Fuel Management Unit
2-pole grey connector FMU 43 +12V FMU return 34 Ground FMU return	Red-white Brown-black	Connect the 2-pole connector to the grey lock-off valve of the Fuel Management Unit
4-pole diagnose connector 46 Service TxD 65 Service RxD 68 Ground PDT	Grey Grey Brown-black	Diagnose connector for service / diagnosis Connector pin 1 Connector pin 2 Connector pin 4
Boost pump relay 2 +12V boost pump relay 26 Ground BP relay +12V fused BATT +12V Boost pump	Red-white Purple-blue Red 2.5mm2 Red 2.5mm2	Pin 86 of the boost pump relay C4 Pin 85 of the boost pump relay B6 Pin 30 of the boost pump relay C6-A5 Pin 87 of the boost pump relay B4
Wiring tank pump driver relay 57 +12V tank relay 73 LSS 4 tank relay +12V BATT fused +12V driver	Red-white Purple-blue Red 2.5mm2 Red 2.5mm2	Pin 86 of the driver relay C1 Pin 85 of the driver relay B2 Pin 30 of the driver relay C2-A4 Pin 87 of the driver relay B1



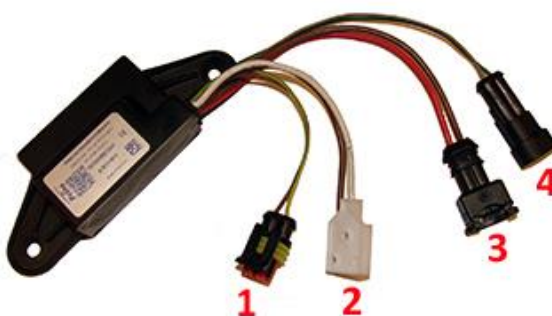
Electrical connections

Check and measure the wiring in case of changes in the cars wiring colours.

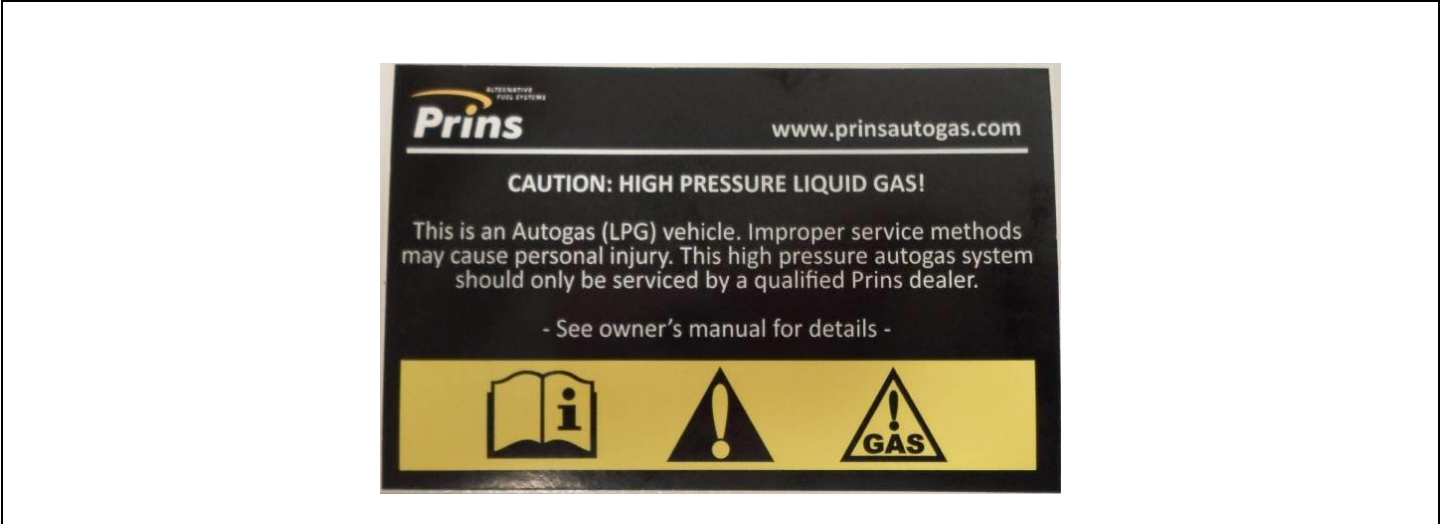
Lpg tank housing

Wire number / code	Wire colour AFC	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 2.5mm ² Red 2.5mm ²	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		
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 2.5mm ² Brown 2.5mm ²	From tank pump driver From tank pump driver
3. 2-pole connector driver	1. Brown 2.5mm ² 2. Red 2.5mm ²	From main ground From tank pump relay Ground pump driver +12V pump driver
4. 2-pole connector driver	1. Green 2. Grey	From AFC pin 71 From AFC pin 64 LSS3 Pump driver PWM Pump driver diagnose



Prins safety stickers



Apply the sticker on an eye catching location.

Checklist after installation

1. Install the system fuses.
Turn on ignition.
Connect the Prins Diagnostic Tool and run the Prins Diagnostic program.
When working on the car, beware of moving and rotating parts in the engine compartment (even when the engine is not running !!).
2. When commissioning the LPG system, you must activate the AFC with the diagnosis software.
3. Check whether the program in the AFC matches with the car (dedicated engine set):
See "Identification" in the diagnosis program.
4. Check all components and connections for any LPG leakage, use a gas leak detector device or a fluid detection like soap. Also check for petrol leakage.
Check all made connections and XD-hose crimps for petrol / LPG leakage.
Make sure the solenoid valves are in open position.
No evidence of leakage is permitted.
Caution for moving and rotating parts in the engine compartment !
5. Use the diagnosis software to check again all input and output signals.
6. Check the system for error codes and solve these, if required.
Check the petrol MMS for EOBD error codes.
Place the protection connector back on the diagnose connector.
7. Make a test drive and check the cars drivability on LPG and petrol.

