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**Assembly
instructions**
LPG *Sequent* **plug&drive**



Golf VI
1.6i 75 kW Euro 5

instruction code FSG003001P
kit code 09SQPD030001



Assembly instructions - FRONT SIDE

LPG SEQUENT PLUG&DRIVE

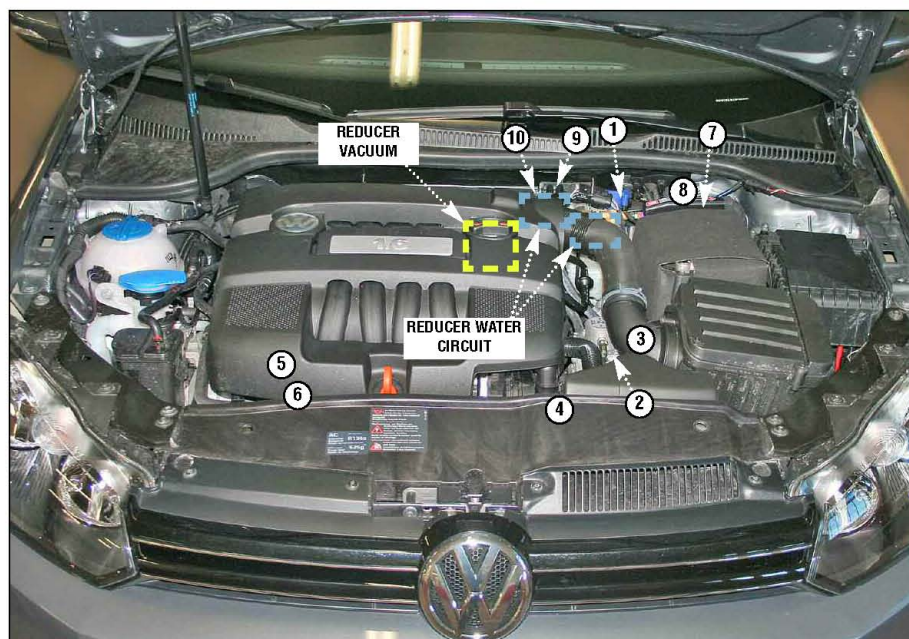


• System installed	LPG Sequent Plug&Drive
• Number of R115 homologation	-
• Builder	Volkswagen
• Vehicle category	M1
• Engine code	BSE
• Engine size	1595 cm ³
• Gear shift	Manual
• Vehicle model	Golf VI
• Kind of conversion system	LPG
• Instruction code	FSG003001P of Apr 28 th , 2009

CHARACTERISTICS OF CONVERTED VEHICLE



COMPONENTS LAYOUT



	COMPONENTS DESCRIPTION	HOMOLOGATION	CODE
1	ET98 MY07 "WP" LPG solenoid valve	E13*67R01*0015*	E030I14600M7
2	Genius MB 1200 mbar LPG reducer	E13*67R01*0016*	E010I14600M
3	MAP Sensor	E3*67R01*0036*	DE802082
4	FJ1 HE filter, ø 10 mm pipe-holder	E13*67R01*0168*	09SQ99010003
5	4-cylinder BRC Rail with PTS sensor	E13*67R01*0185*	09SQ99030404
		E13*67R01*0262*	DE525001
6	Normal BRC injectors (x4)	E13*67R01*0223*	09SQ99020001G
7	Sequent Plug&Drive ECU	E3*67R01*1002*	DE815010-1
8	Diagnostic socket	-----	-----
9	Fuses	-----	-----
10	Relay	-----	-----
11	One-Touch changeover switch	-----	06LB00001988

PIPES

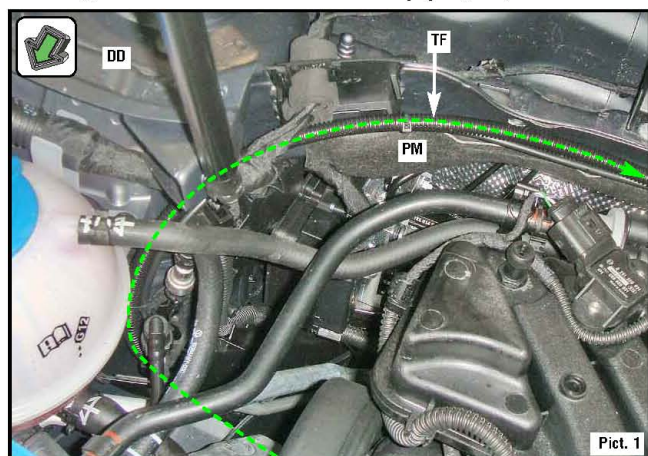
DESCRIPTION	LENGTH (mm)	QT.	HOMOLOGATION	CODE
Flexible gas pipe ø5mm (SV-Reducer)	600	1	E11*67R01*010011*	22TB00040300
Rubber water pipe ø8-15mm	310	1	-----	TB05P0310
Rubber water pipe ø8-15mm	440	1	-----	TB05P0440
Gas pipe ø5-10,5mm (Reducer vacuum)	460	1	E13*67R01*0128*	TB0591800E
Gas pipe ø5-10,5mm (MAP Sensor vacuum)	300	1	E13*67R01*0128*	TB0591800E
Gas pipe ø10-17mm (Reducer-Filter)	200	1	E13*67R01*0128*	TB05U0200E
Gas pipe ø10-17mm (Filter-Rail)	240	1	E13*67R01*0128*	TB05U0240E
Gas pipe ø5-10,5mm (Rail-Nozzles)	260	4	E13*67R01*0128*	TB0591800E

NOZZLES

DESCRIPTION	QUANTITY	CODE
Gas nozzle	4	FE077245-3
Vacuum nozzle	1	21RG03010006
Nylon "Y"- fitting	1	21RG99020001

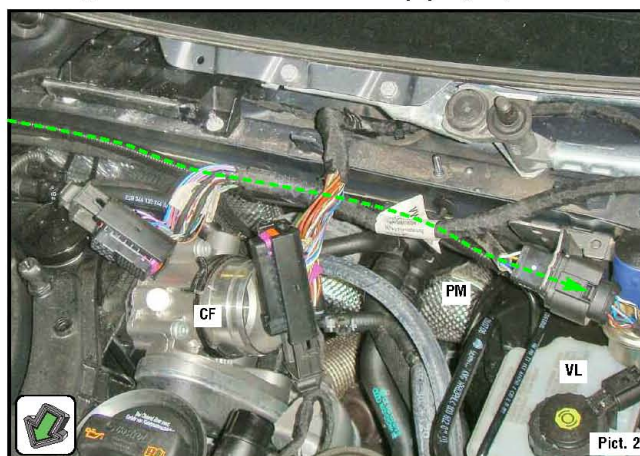
DESCRIPTION OF COMPONENTS INSTALLATION

Passage of Solenoid valve flexible pipe (1/2)



Let the flexible pipe [TF] coming from multivalve, go out on the left side of the vehicle right dome [DD].
Fix it along the dome, realizing a bend as shown in picture 1 and going on along the engine bulkhead [PM].

Passage of Solenoid valve flexible pipe (2/2)



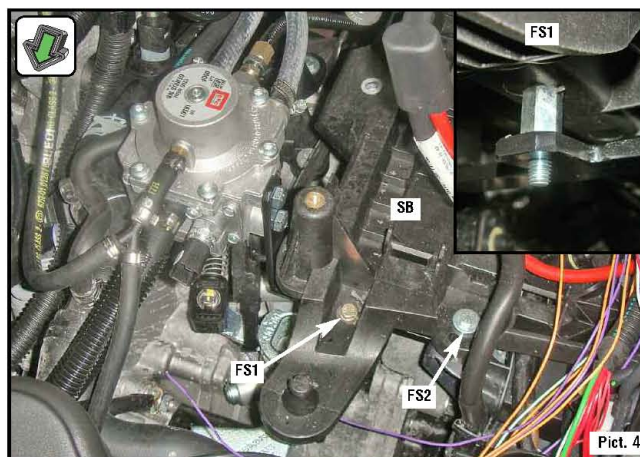
Go on with fixing it along the engine bulkhead [PM], passing behind the throttle body [CF] and reaching the power steering liquid cup [VL] (pict. 2).

1 - ET98 MY07 "WP" LPG solenoid valve



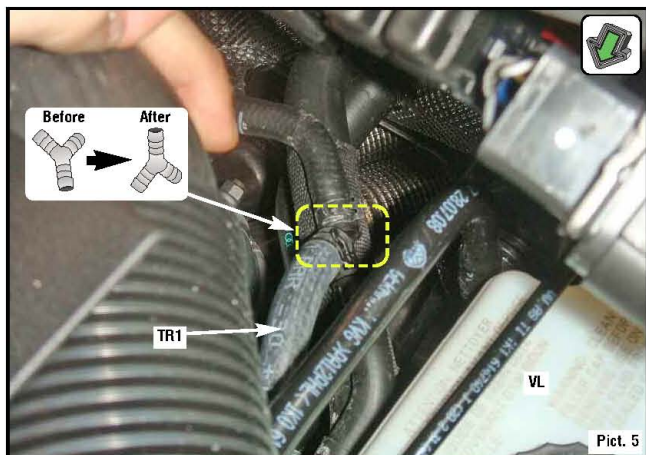
Fix solenoid valve to the bracket and fix this latter to the original screw [VI] situated on vehicle engine bulkhead [PM] (pict. 3).
Connect flexible pipe coming from the tank to the solenoid valve inlet [IG] and pipe going to the reducer to its outlet.

2 - Genius MB 1200 mbar LPG reducer

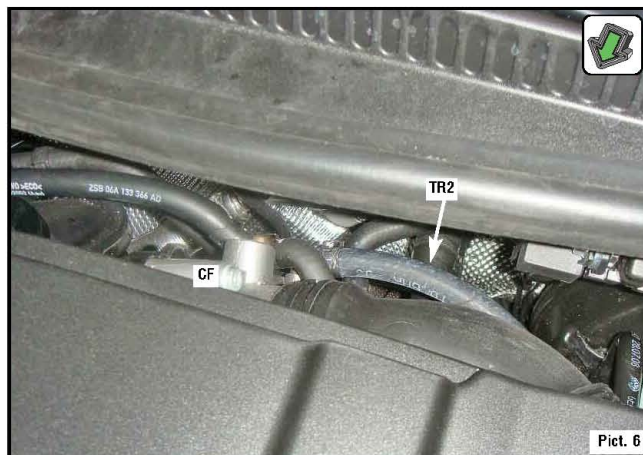


Fix reducer to the bracket and this latter under the battery box [SB], at points [FS1,FS2] shown in picture 4, using a spacer bar under the fixing point [FS1]. Connect flexible pipe coming from the solenoid valve to the reducer inlet. Join vacuum pipe (with "Y" fitting), the two water pipes and pipe ø10-17 mm going to the filter to the reducer. Screw water temperature sensor in its suitable housing.

Genius MB water circuit

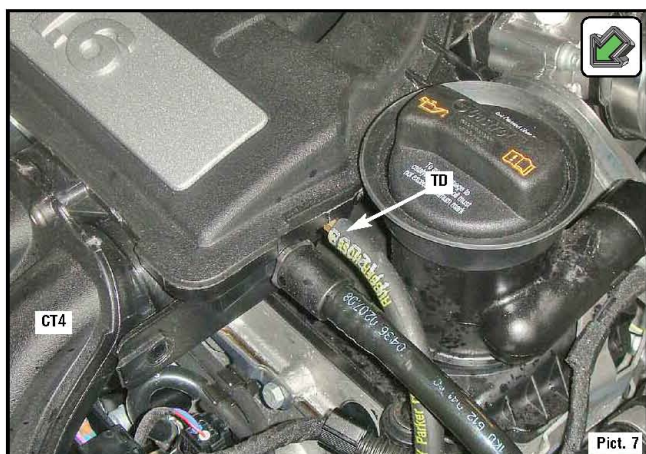


In order to realize water circuit, eliminate the original heating circuit pipe starting from the "Y" fitting shown in picture 5 (to the immediate right of power steering liquid cup [VL]) up to the fitting shown in picture 6. Reverse "Y" fitting, in order to connect first pipe ø8-15 [TR1] coming from the reducer.



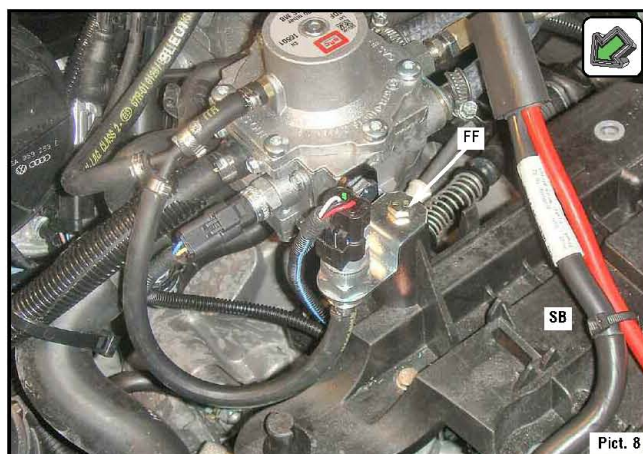
Connect the reducer second pipe ø8-15 [TR2] to the fitting situated near the throttle body [CF] (pict. 6).

Vacuum



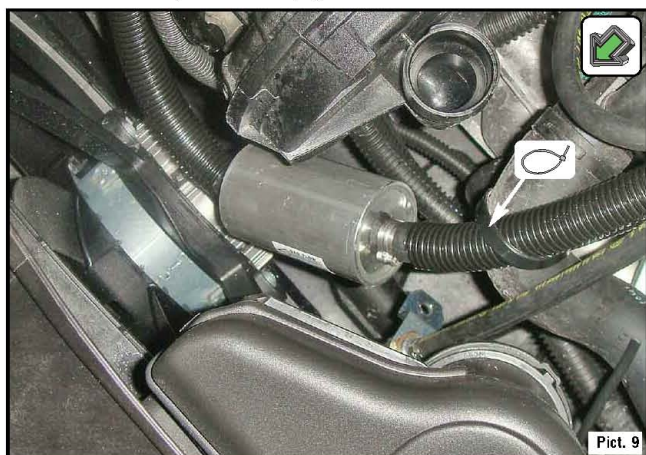
Drill ø 5 mm where shown in picture 7, next to the 4th manifold [CT4]. Thread M6, screw nozzle here and connect vacuum pipe [TD]. Connect the other side of vacuum pipe to the "Y" fitting next to the reducer (pictures 4 and 8).

3 - MAP Sensor



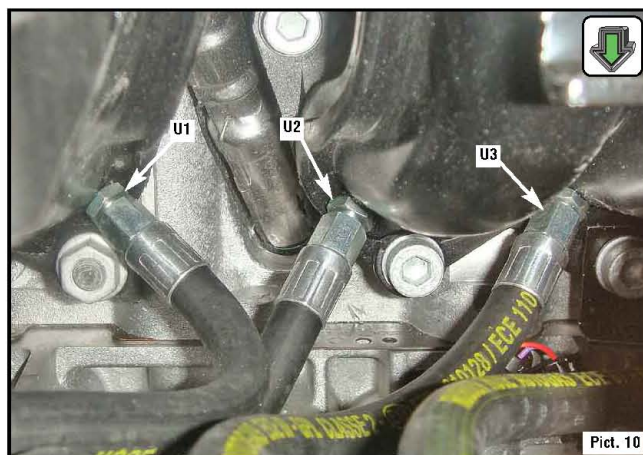
Fix MAP sensor to the suitable bracket and this latter to the original threaded hole [FF] on the battery box [SB] (pict. 8). Connect MAP sensor to the "Y" fitting near the reducer, using a ø5-10,5 pipe.

4 - FJ1 HE filter, ø 10 mm pipe-holder



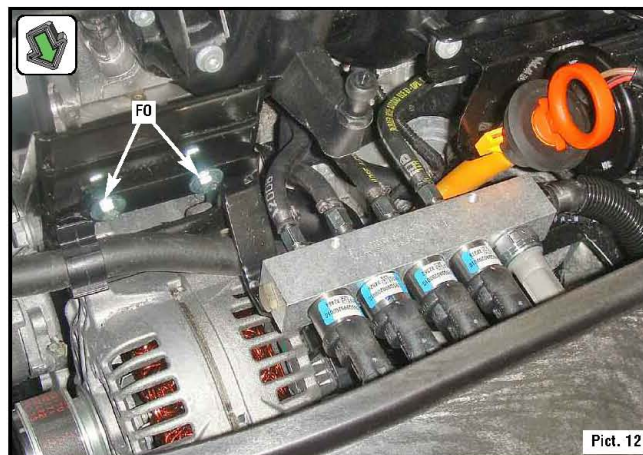
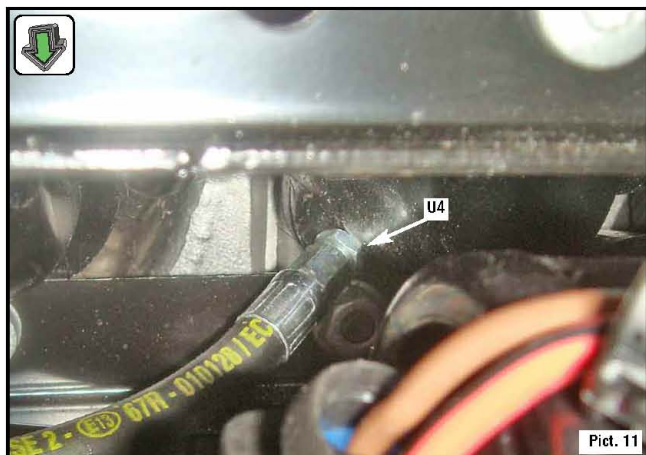
Connect pipe ø10-17 mm coming from the reducer to the filter inlet and the second pipe ø10-17 mm going to the rail to its outlet. Fix pipe entering the filter as shown in picture 9, using a plastic clamp.

Gas nozzle



Making reference to pictures 10 and 11, drill manifolds ø5 mm and thread M6. Screw the four pipes ø5-10,5 mm to the nozzles. Screw the four pipes [U1,U2,U3,U4] with nozzles to the manifolds.

5/6 - 4-cylinder BRC rail w/ PTS sensor/Normal BRC injectors



Mount BRC injectors and sensor on the rail.
Fix rail and bracket to the vehicle, using the two original holes [FO] shown in picture 12.
Connect nozzles pipes to each injector.
Connect pipe coming from the filter to the rail inlet.

7/8 - Sequent Plug&Drive ECU/Diagnostic socket



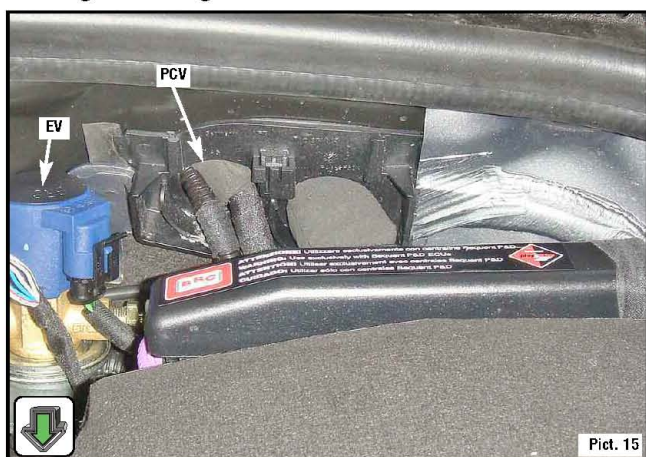
Fix Sequent Plug&Drive ECU to its bracket.
Fix this latter to the original holes [FO] on the battery box [SB] (pict. 13).
Place diagnostic socket next to the Plug&Drive ECU.

9/10 - Fuses/Relay



Fix bracket with fuse-holder and relay where shown in picture 14 [FS], to the right of the LPG solenoid valve [EV].

Passage of changeover switch cable



Use the original fairlead [PCV] on engine bulkhead, to the left of the LPG solenoid valve [EV], in order to bring changeover switch harness inside the passenger compartment (pict. 15).

11 - One-Touch changeover switch



Install changeover switch into the central tunnel, to the right of the ashtray (pict. 16).