

Contents

00 - Technical data	1
1 Safety precautions	1
1.1 Working on the fuel system	1
1.2 Using testers and measuring instruments during a road test	2
1.3 Removing and installing components from a full or partly full fuel tank	2
1.4 Removing and installing fuel tank	2
1.5 Working on the reducing agent metering system - vehicles with SCR catalytic converter ..	3
1.6 Working on vehicles with start/stop system	4
2 General repair instructions	5
2.1 Rules for cleanliness	5
2.2 Test conditions	5
2.3 Contact corrosion	5
20 - Fuel supply system	7
1 Fuel tank	7
1.1 Exploded view - fuel tank	7
1.2 Draining fuel tank	15
1.3 Removing and installing fuel tank with attached components	20
1.4 Removing and installing misfuelling prevention device	49
1.5 Deactivating misfuelling prevention device	52
2 Fuel delivery unit/fuel gauge senders	54
2.1 Exploded view - fuel delivery unit/fuel gauge senders	54
2.2 Checking fuel gauge sender G	63
2.3 Removing and installing fuel gauge sender G	66
2.4 Checking fuel gauge sender 2 G169	72
2.5 Removing and installing fuel gauge sender 2 G169	75
3 Plug-in connectors	82
3.1 Disconnecting plug-in connectors	82
4 Supplementary fuel pump	87
4.1 Exploded view - supplementary fuel pump V393	87
4.2 Checking delivery rate of supplementary fuel pump V393	88
4.3 Removing and installing supplementary fuel pump V393	91
5 Fuel cooler	93
5.1 Exploded view - fuel cooler	93
5.2 Removing and installing fuel cooler	93
6 Fuel filter	97
6.1 Exploded view - fuel filter, vehicles with 3.0 ltr (V6) or 4.2 ltr. (V8) engine and vertical fuel filter	97
6.2 Removing and installing fuel filter - vehicles with 3.0 ltr (V6) or 4.2 ltr. (V8) engine and vertical fuel filter	99
6.3 Exploded view - fuel filter, vehicles with 3.0 ltr (V6) or 4.2 ltr. (V8) engine and horizontal fuel filter	100
6.4 Removing and installing fuel filter - vehicles with 3.0 ltr (V6) or 4.2 ltr. (V8) engine and horizontal fuel filter	101
6.5 Exploded view - fuel filter, vehicles with 6.0 ltr. (V12) engine	103
6.6 Removing and installing fuel filter - vehicles with 6.0 ltr. (V12) engine	104
7 Regulating valve - vehicles with 6.0 ltr. (V12) engine	107
7.1 Exploded view - regulating valve, vehicles with 6.0 ltr. (V12) engine	107
7.2 Removing and installing regulating valve - vehicles with 6.0 ltr. (V12) engine	108
8 Bleeding fuel system	111
8.1 Bleeding fuel system	111
8.2 Bleeding fuel supply line leading to metering pump - vehicles with auxiliary heater	111



9	Accelerator mechanism	113
9.1	Exploded view - accelerator pedal module	113
9.2	Removing and installing accelerator pedal module with accelerator position sender	114
10	Fuel pump	115
10.1	Checking fuel system pressurisation pump G6/fuel pump G23	115
10.2	Checking fuel pumps (electrical test) - vehicles with 3.0 ltr. (V6) engine up to 05.2008 or 4.2 ltr. (V8) engine up to 05.2010 and vehicles with 6.0 ltr. (V12) engine	131
10.3	Removing and installing fuel delivery unit (right-side) with fuel system pressurisation pump G6	134
10.4	Removing and installing fuel delivery unit (left-side) with fuel pump G23	157
10.5	Suction-jet pumps	172
10.6	Removing and installing suction-jet pump (left-side)	174
10.7	Removing and installing suction-jet pump (right-side)	195
10.8	Removing and installing fuel pump control unit J538	204