

## Contents

<b>20 - Fuel supply system</b> .....	<b>1</b>
<b>1 Notes for working on fuel supply system</b> .....	<b>1</b>
1.1 Safety precautions when working on the fuel supply system .....	1
1.2 Rules for cleanliness .....	1
<b>2 Fuel tank on all front-wheel drive vehicles with MPI and 2.0 ltr. FSI engine</b> .....	<b>3</b>
2.1 Exploded view - fuel tank with components .....	3
2.2 Draining fuel tank .....	4
2.3 Removing and installing fuel tank with attached components .....	6
2.4 Exploded view - fuel delivery unit and fuel gauge sender .....	11
2.5 Checking fuel pump (electrical test) .....	13
2.6 Checking fuel pump delivery rate - vehicles with 4-cylinder naturally aspirated engine ....	16
2.7 Checking fuel pump delivery rate - vehicles with 1.8 ltr. turbo engine .....	18
2.8 Checking fuel pump delivery rate - vehicles with 4-cylinder FSI engine .....	20
2.9 Checking fuel pump delivery rate - vehicles with 6-cylinder MPI engine .....	22
2.10 Removing and installing fuel delivery unit .....	23
2.11 Checking fuel gauge sender G .....	28
2.12 Removing and installing fuel gauge sender G .....	30
<b>3 Fuel tank on front-wheel drive vehicles with 4-cylinder TFSI and 6-cylinder FSI engine</b> ..	<b>31</b>
3.1 Exploded view - fuel tank with components .....	31
3.2 Draining fuel tank .....	32
3.3 Removing and installing fuel tank with attached components .....	34
3.4 Exploded view - fuel delivery unit and fuel gauge sender .....	39
3.5 Checking fuel pump (electrical test) .....	41
3.6 Checking fuel pump control unit J538 - vehicles with 4-cylinder TFSI engine .....	43
3.7 Checking fuel pump control unit J538 - vehicles with 6-cylinder FSI engine .....	47
3.8 Checking fuel pump delivery rate - vehicles with 4-cylinder TFSI engine .....	47
3.9 Checking fuel pump delivery rate - vehicles with 6-cylinder FSI engine .....	50
3.10 Removing and installing fuel delivery unit .....	53
3.11 Adapting fuel pump after renewing fuel delivery unit - vehicles with 4-cylinder TFSI engine .....	56
3.12 Checking fuel gauge sender G .....	58
3.13 Removing and installing fuel gauge sender G .....	60
<b>4 Fuel tank on vehicles with four-wheel drive - vehicles up to 10.2004</b> .....	<b>62</b>
4.1 Exploded view - fuel tank with components .....	62
4.2 Draining fuel tank .....	63
4.3 Removing and installing fuel tank with attached components .....	66
4.4 Exploded view - fuel delivery unit and fuel gauge senders .....	71
4.5 Checking fuel pump (electrical test) .....	74
4.6 Checking fuel pump delivery rate - vehicles with 1.8 ltr. turbo engine .....	76
4.7 Checking fuel pump delivery rate - vehicles with 6-cylinder MPI engine .....	78
4.8 Checking fuel pump delivery rate - vehicles with 8-cylinder MPI engine .....	80
4.9 Removing and installing fuel delivery unit .....	81
4.10 Checking fuel gauge sender G .....	86
4.11 Removing and installing fuel gauge sender G .....	88
4.12 Checking fuel gauge sender 2 G169 .....	91
4.13 Removing and installing fuel gauge sender 2 G169 .....	93
4.14 Suction-jet pump .....	96
4.15 Removing and installing suction-jet pump in left fuel tank chamber .....	97
<b>5 Fuel tank on vehicles with four-wheel drive - vehicles from 11.2004 onwards</b> .....	<b>106</b>
5.1 Exploded view - fuel tank with components .....	106
5.2 Draining fuel tank .....	107
5.3 Removing and installing fuel tank with attached components .....	111



5.4	Exploded view - fuel delivery unit and fuel gauge senders	116
5.5	Checking fuel pump (electrical test)	119
5.6	Checking fuel pump control unit J538 - vehicles with 4-cylinder TFSI engine	121
5.7	Checking fuel pump control unit J538 - vehicles with 6-cylinder and 8-cylinder FSI engine	125
5.8	Removing and installing fuel pump control unit J538	125
5.9	Checking fuel pump delivery rate - vehicles with 1.8 ltr. turbo engine	129
5.10	Checking fuel pump delivery rate - vehicles with 4-cylinder TFSI engine	131
5.11	Checking fuel pump delivery rate - vehicles with 6-cylinder MPI engine	134
5.12	Checking fuel pump delivery rate - vehicles with 6-cylinder FSI engine	135
5.13	Checking fuel pump delivery rate - vehicles with 8-cylinder MPI engine	138
5.14	Checking fuel pump delivery rate - vehicles with 8-cylinder FSI engine	140
5.15	Removing and installing fuel delivery unit	144
5.16	Adapting fuel pump after renewing fuel delivery unit - vehicles with 4-cylinder TFSI engine	148
5.17	Checking fuel gauge sender G	150
5.18	Removing and installing fuel gauge sender G	152
5.19	Checking fuel gauge sender 2 G169	152
5.20	Removing and installing fuel gauge sender 2 G169	154
5.21	Suction-jet pump	158
5.22	Removing and installing suction-jet pump	158
<b>6</b>	<b>Servicing fuel filter</b>	<b>165</b>
6.1	Removing and installing fuel filter - fuel system with fuel return line	165
6.2	Removing and installing fuel filter - fuel system without fuel return line	166
6.3	Removing and installing fuel filter - vehicles with 1.8 ltr. turbo engine with front-wheel drive (all versions) or with four-wheel drive up to 10.2004	167
<b>7</b>	<b>Bleeding fuel system</b>	<b>169</b>
7.1	Vehicles with 1.8 ltr. turbo engine	169
<b>8</b>	<b>Servicing components of activated charcoal filter system</b>	<b>170</b>
8.1	Removing and installing activated charcoal filter	170
<b>9</b>	<b>Servicing accelerator mechanism</b>	<b>172</b>
9.1	Exploded view - accelerator pedal module	172
9.2	Removing and installing accelerator pedal module with accelerator position sender	173
9.3	Adapting kick-down function after renewing accelerator pedal position sender or engine control unit	173