



Contents

00 - Technical data	1
1 General notes	1
1.1 Starting conditions for auxiliary/supplementary heater	1
1.2 Rules for cleanliness for working on the auxiliary heater and the fuel system	2
1.3 Notes for vehicles with a Start/Stop system	2
1.4 Identification plates	3
2 Notes on safety	6
2.1 Safety precautions for working on vehicles with auxiliary heater	6
2.2 Safety measures for when working on vehicles with a Start/Stop system	6
2.3 Safety precautions when working on the fuel system	7
3 Repair notes	8
3.1 Notes on general repairs on vehicles with auxiliary heaters	8
82 - Auxiliary heating	9
1 Fittings location overview - auxiliary/supplementary heater	9
1.1 Overview of fittings locations - auxiliary/supplementary heater, Golf 2004 ►, Golf 2009 ►	9
1.2 Overview of fitting location - auxiliary/supplementary heater, Golf Cabriolet 2012 ►	11
2 Auxiliary/supplementary heater	13
2.1 Fittings location overview - auxiliary/supplementary heater	13
2.2 Removing and installing auxiliary/supplementary heater	14
2.3 Removing and installing air intake silencer	17
2.4 Removing and installing circulation pump V55	18
2.5 Removing and installing exhaust system	19
2.6 Removing and installing exhaust pipe for auxiliary heater	19
2.7 Removing and installing silencer with bracket	21
2.8 Removing and installing bracket for auxiliary heater	21
2.9 Removing and installing cover	21
2.10 Dismantling and assembling auxiliary heater Thermo Top V/fleece	22
2.11 Removing and installing glow plug with flame monitoring Q8	23
2.12 Components inside auxiliary heater	24
3 Coolant circuit with auxiliary/supplementary heater	28
3.1 Coolant hose schematic diagram	28
3.2 Removing and installing heater coolant shut-off valve N279	50
3.3 Bleeding coolant circuit of auxiliary heater	52
4 Fuel supply	54
4.1 Fittings location overview - fuel supply	54
4.2 Rules for cleanliness	56
4.3 Removing and installing metering pump V54	56
4.4 Testing quantity of fuel delivered	57
5 Regulation of auxiliary/supplementary heater	60
5.1 Functional description	60
5.2 Supplementary heating mode	61
5.3 Auxiliary heater mode	61
5.4 Switching off auxiliary/supplementary heater	62
6 Other controlling and regulating components	64
6.1 Removing and installing remote control receiver for auxiliary coolant heater R149	64
6.2 Removing and installing ambient temperature sensor G17	66
6.3 Functional description of remote control for auxiliary/supplementary heater	67
7 Electric engine preheater, 230 V (or 115 V, depending on country)	71
7.1 Safety measures for working on vehicles with engine preheater	71
7.2 Rules for cleanliness when working on engine preheater	71



7.3	Assembly overview - engine preheater, 1.6 l MPI, 2.0 l FSI, 1.9 l TDI	71
7.4	Assembly overview - engine preheater, 2.0 l TDI Common Rail	73
7.5	Removing and installing connector for mains plug	73
7.6	Checking connector	75
7.7	Testing safety switch (optional)	76
7.8	Removing and installing engine preheater	76
7.9	Connecting engine preheater into cooling circuit	79