

Contents

00 - Technical data	1
1 General notes	1
1.1 Type plates	1
1.2 Notes on operation of auxiliary/supplementary heater on vehicles with diesel engine	2
1.3 Starting conditions for auxiliary/supplementary heater	2
1.4 Notes on auxiliary heater	3
1.5 Operating sequence for auxiliary heater	11
1.6 Activation of heater coolant shut-off valve	16
1.7 Rules for cleanliness when working on the auxiliary/supplementary heater and fuel system	17
1.8 Overview of components for auxiliary heater in vehicle	19
2 Safety precautions	21
2.1 Safety precautions when working on vehicles with start/stop system	21
2.2 Safety precautions when working on vehicles with auxiliary/supplementary heater	21
3 Repair instructions	23
3.1 General repair instructions	23
3.2 Contact corrosion	23
82 - Auxiliary heating	25
1 Overview of fitting locations - auxiliary/supplementary heater	25
1.1 Overview of fitting locations - components not located in passenger compartment	25
1.2 Overview of fitting locations - components in passenger compartment (front)	31
1.3 Overview of fitting locations - components in passenger compartment (rear)	37
2 Auxiliary/supplementary heater	40
2.1 General notes	40
2.2 Overview of fitting locations - auxiliary/supplementary heater	41
2.3 Exploded view - components inside auxiliary/supplementary heater	51
2.4 Removing and installing auxiliary/supplementary heater	58
2.5 Dismantling and assembling auxiliary/supplementary heater	67
2.6 Removing and installing air intake silencer	70
2.7 Removing and installing circulation pump V55	71
2.8 Removing and installing exhaust system	74
2.9 Removing and installing bracket for auxiliary/supplementary heater	76
2.10 Removing and installing auxiliary heater control unit J364	78
2.11 Removing and installing temperature sensor G18	80
2.12 Removing and installing temperature sensor 2 for supplementary and auxiliary heating G587	81
2.13 Removing and installing flame monitor G64	82
2.14 Removing and installing glow plug for heater Q9	83
2.15 Removing and installing fuel pre-heating heater element Z66	84
2.16 Removing and installing combustion air blower V6	86
2.17 Removing and installing burner element	86
2.18 Removing and installing heat exchanger	88
2.19 Pin assignment for auxiliary/supplementary heater	88
2.20 Checking electrical components of auxiliary heater	90
3 Coolant circuit with auxiliary/supplementary heater	97
3.1 General notes	97
3.2 Connection diagram - coolant hoses	98
3.3 Operation of heater coolant shut-off valve	105
3.4 Removing and installing heater coolant shut-off valve	106
3.5 Bleeding coolant circuit	108
4 Fuel supply system	111
4.1 Overview of fitting locations - fuel supply system	111

4.2	Overview - metering pump V54	114
4.3	Fuel take-off from fuel tank	114
4.4	Fuel delivery unit in fuel tank	116
4.5	Filling fuel line to metering pump V54 with fuel, bleeding	118
4.6	Releasing quick-release coupling at fuel line for auxiliary heater	118
4.7	Routing of fuel pipe to auxiliary heater	119
4.8	Checking CO ₂ content in auxiliary heater exhaust gas	120
4.9	Checking fuel delivery rate	124
4.10	Removing and installing metering pump V54	130
5	Auxiliary/supplementary heater control	135
5.1	Functional description	135
5.2	Overview of activation of auxiliary heater with remote control	137
5.3	Activating and deactivating auxiliary heating/auxiliary ventilation via Multi Media Interface (MMI)	138
6	Further control components	140
6.1	Removing and installing remote control receiver for auxiliary heater R64	140
6.2	Auxiliary heater remote control buttons and indicator lamp	141
6.3	Renewing batteries of remote control for auxiliary heater	144
6.4	Adaption of remote control for auxiliary heater	145