

## Contents

<b>82</b>	<b>Auxiliary heating</b> .....	<b>1</b>
1	<b>Servicing auxiliary/supplementary heater</b> .....	1
1.1	Contact corrosion .....	1
1.2	Notes on auxiliary/supplementary heater .....	1
1.3	Notes on auxiliary/supplementary heater operation on vehicles with diesel engine .....	3
2	<b>Safety precautions when working on vehicles fitted with auxiliary/supplementary heater</b> ..	4
2.1	Safety precautions for vehicles with a start/stop system .....	5
3	<b>Notes on general repair work on vehicles fitted with auxiliary/supplementary heater</b> .....	6
3.1	Notes on auxiliary/supplementary heater diagnosis and repair .....	7
4	<b>Rules for cleanliness when working on auxiliary/supplementary heater (and fuel system)</b> .....	9
5	<b>Layout of components for auxiliary/supplementary heater in vehicle</b> .....	10
5.1	Layout of components .....	10
5.2	Auxiliary heater remote control buttons and indicator lamp .....	19
5.3	Checking and replacing batteries in auxiliary heater remote control .....	21
5.4	Adaption of auxiliary heater remote control in supplementary heater control unit J364 ..	21
5.5	Activating and deactivating auxiliary heating/auxiliary ventilation by way of Multi Media Interface (MMI) .....	22
6	<b>Diverting fuel for auxiliary/supplementary heater</b> .....	25
6.1	Fuel supply for auxiliary/supplementary heater .....	25
6.2	Filling fuel line to metering pump V54 with fuel (bleeding) .....	27
6.3	Diverting fuel (for auxiliary/supplementary heater) from fuel tank .....	28
6.4	Checking fuel delivery rate of metering pump V54 .....	29
6.5	Removing and installing metering pump V54 .....	35
6.6	Routing of fuel line to auxiliary/supplementary heater .....	38
7	<b>Checking and adjusting CO2 content in exhaust gas of auxiliary/supplementary heater</b> ..	39
7.1	Checking CO2 content in exhaust gas of auxiliary/supplementary heater .....	39
7.2	Adjusting CO2 content in exhaust gas of auxiliary/supplementary heater .....	44
8	<b>Checking electrical components and connections of auxiliary/supplementary heater</b> .....	50
8.1	Checking of electrical components and connections .....	50
8.2	Checking auxiliary/supplementary heater electrical components .....	51
9	<b>Auxiliary/supplementary heater operating sequence</b> .....	55
9.1	Operating sequence .....	57
9.2	Auxiliary/supplementary heater control .....	66
10	<b>Incorporation of auxiliary/supplementary heater into coolant circuit</b> .....	70
10.1	Incorporation of supplementary heater into coolant circuit .....	70
10.2	Incorporation of auxiliary/supplementary heater into coolant circuit .....	74
10.3	Removing and installing coolant circulation pump V50 .....	78
10.4	Operation of and removing/installing heater coolant shut-off valve N279 .....	80
10.5	Note on vehicles with "Poor heat output" problem with engine running .....	81
11	<b>Removing and installing auxiliary/supplementary heater</b> .....	84
11.1	Removing auxiliary/supplementary heater .....	86
11.2	Installing auxiliary/supplementary heater .....	90
11.3	Bleeding coolant circuit .....	93
12	<b>Detaching and attaching auxiliary/supplementary heater add-on components</b> .....	96
12.1	Detaching and attaching add-on components .....	96
12.2	Removing and installing auxiliary/supplementary heater exhaust system .....	98
12.3	Removing and installing intake air silencer .....	98
13	<b>Dismantling and assembling auxiliary/supplementary heater</b> .....	99
13.1	Dismantling and assembling auxiliary/supplementary heater .....	99
13.2	Removing and installing cover for connector console .....	102



13.3	Assignment of auxiliary/supplementary heater connector console .....	102
13.4	Removing and installing combustion air blower V6 .....	103
13.5	Removing and installing burner element .....	104
13.6	Removing and installing glow plug with flame monitor Q8 .....	105
<b>14</b>	<b>Block diagram of auxiliary/supplementary heater .....</b>	<b>107</b>
14.1	Incorporation of auxiliary/supplementary heater into vehicle electrical system .....	107
14.2	Fitting location of temperature sensor G18 in auxiliary/supplementary heater .....	108
<b>15</b>	<b>Block diagram of auxiliary/supplementary heater actuation with remote control .....</b>	<b>110</b>
15.1	Actuation of auxiliary/supplementary heater with remote control .....	110
15.2	Fitting location for remote control receiver for auxiliary heater R64 .....	113