



## Contents

<b>00 - Technical data</b>	<b>1</b>
<b>1 Safety information</b>	<b>1</b>
1.1 Safety precautions during work on fuel system	1
1.2 Safety measures when working on vehicles with a start/stop system	1
1.3 Safety precautions when using testers and measuring instruments during a road test	2
1.4 Safety precautions when working on the cooling system	2
1.5 Safety precautions when working on vehicles with auxiliary/supplementary heater	2
<b>2 General information</b>	<b>4</b>
2.1 Starting conditions for auxiliary/supplementary heater	4
2.2 Notes for vehicles with a start/stop system	4
2.3 Type plates to model year 2017	5
2.4 Type plates from model year 2017	5
<b>3 Repair notes</b>	<b>7</b>
3.1 Rules for cleanliness when working on auxiliary/supplementary heater and fuel system	7
3.2 Rules for cleanliness when working on fuel supply system	7
3.3 Notes on general repairs on vehicles with auxiliary heater	7
<b>82 - Supplementary heating</b>	<b>9</b>
<b>1 Overview of fitting locations - auxiliary/supplementary heater</b>	<b>9</b>
1.1 Overview of fitting locations - components of auxiliary heater, to model year 2017	9
1.2 Overview of fitting locations - auxiliary heater, from model year 2017	10
<b>2 Auxiliary/supplementary heater</b>	<b>12</b>
2.1 Assembly overview - auxiliary heater, to model year 2017	12
2.2 Assembly overview - auxiliary heater, from model year 2017	14
2.3 Assembly overview - interior auxiliary heater, to model year 2017	15
2.4 Assembly overview - interior auxiliary heater, from model year 2017	16
2.5 Removing and installing auxiliary heater, to model year 2017	18
2.6 Removing and installing auxiliary heater, from model year 2017	21
2.7 Dismantling and assembling auxiliary heater, to model year 2017	24
2.8 Dismantling and assembling auxiliary heater, from model year 2017	25
2.9 Removing and installing air intake silencer, to model year 2017	26
2.10 Removing and installing air intake silencer, from model year 2017	26
2.11 Removing and installing circulation pump V55 , to model year 2017	26
2.12 Removing and installing circulation pump V55 , from model year 2017	27
2.13 Removing and installing silencer with bracket	30
2.14 Removing and installing heater coolant shut-off valve N279 , up to model year 2017	30
2.15 Removing and installing heater coolant shut-off valve N279 , vehicles with 4-cylinder engine, from model year 2017 onwards	31
2.16 Removing and installing heater coolant shut-off valve N279 , vehicles with 6-cylinder engine, from model year 2017 onwards	33
2.17 Coolant temperature sender for heater G241	34
2.18 Removing and installing glow plug with flame monitor Q8 , from model year 2017	35
2.19 Removing and installing temperature sensor G18 and overheating sensor G189 , from model year 2017	35
2.20 Pin assignment of auxiliary heater, to model year 2017	36
2.21 Pin assignment of auxiliary heater, from model year 2017	36
2.22 Removing and installing auxiliary heater control unit J364 with combustion air blower V6 , from model year 2017	38
2.23 Dismantling and assembling burner unit, from model year 2017	38
<b>3 Coolant circuit with auxiliary/supplementary heater</b>	<b>39</b>
3.1 Coolant hose connection diagram	39
<b>4 Fuel supply system</b>	<b>49</b>
4.1 Overview of fitting locations - fuel supply system, to model year 2017	49



4.2	Overview of fitting locations - fuel supply system, vehicles with 4-cylinder engine, from model year 2017	50
4.3	Overview of fitting locations - fuel supply system, vehicles with 6-cylinder engine, from model year 2017	51
4.4	Checking fuel delivery rate	51
4.5	Removing and installing metering pump V54 , to model year 2017	53
4.6	Removing and installing metering pump V54 , vehicles with 4-cylinder engine, from model year 2017	54
4.7	Removing and installing metering pump V54 , vehicles with 6-cylinder engine, from model year 2017	55
<b>5</b>	<b>Regulation of auxiliary/supplementary heater</b>	<b>57</b>
5.1	Functional description	57
<b>6</b>	<b>Other controlling and regulating components</b>	<b>58</b>
6.1	Removing and installing roof display unit J702	58
6.2	Removing and installing remote control receiver for auxiliary coolant heater R149	59
6.3	Removing and installing ambient temperature sensor G17	60
6.4	Functional description of remote control for auxiliary/supplementary heater	61