

## Contents

<b>24 - Mixture preparation - injection</b> .....	<b>1</b>
<b>1 Safety precautions</b> .....	<b>1</b>
1.1 Rules for cleanliness .....	1
1.2 Safety precautions when working on the fuel supply system .....	1
1.3 Safety precautions when working on vehicles with start/stop system .....	2
1.4 Safety precautions when using testers and measuring instruments during a road test .....	2
1.5 Safety precautions when working on the ignition system .....	2
1.6 Safety precautions when working on the cooling system .....	3
1.7 Checking for leaks in the fuel system .....	3
1.8 Contact corrosion! .....	3
1.9 Checking vacuum system .....	3
<b>2 Servicing Simos injection system</b> .....	<b>5</b>
2.1 Test data .....	5
2.2 Overview of fitting locations .....	5
2.3 Air cleaner - exploded view .....	14
2.4 Removing and installing air filter element .....	16
2.5 Intake manifold (top section) - exploded view .....	17
2.6 Removing and installing intake manifold (top section) .....	19
2.7 Intake manifold (bottom section) with fuel rail - exploded view .....	21
2.8 Removing and installing intake manifold (bottom section) with fuel rail .....	23
2.9 Removing and installing injectors .....	25
2.10 Checking fuel pressure and residual pressure (up to high-pressure pump) .....	29
2.11 High-pressure pump - exploded view .....	33
2.12 Removing and installing high-pressure pump .....	35
2.13 Bleeding fuel system .....	38
2.14 Lambda probes - overview .....	38
2.15 Removing and installing Lambda probe G39 before catalytic converter - bank 1 (right-side) .....	39
2.16 Removing and installing Lambda probe after catalytic converter G130 - bank 1 (right-side) .....	41
2.17 Removing and installing Lambda probe 2 G108 before catalytic converter - bank 2 (left-side) .....	43
2.18 Removing and installing Lambda probe 2 after catalytic converter G131 - bank 2 (left-side) .....	44
<b>3 Engine control unit</b> .....	<b>47</b>
3.1 Wiring and component check with test box V.A.G 1598/42 .....	47
3.2 Removing and installing engine control unit .....	48
<b>28 - Ignition system</b> .....	<b>53</b>
<b>1 General notes and safety precautions</b> .....	<b>53</b>
1.1 General notes on ignition system .....	53
<b>2 Servicing ignition system</b> .....	<b>54</b>
2.1 Test data .....	54
2.2 Removing and installing ignition coils .....	54
2.3 Removing and installing engine speed sender G28 .....	56