

## Contents

<b>00 - Technical data</b> .....	<b>1</b>
<b>1 Safety precautions</b> .....	<b>1</b>
1.1 Safety precautions when working on vehicles with start/stop system .....	1
1.2 Safety precautions when using testers and measuring instruments during a road test .....	1
<b>2 Repair notes</b> .....	<b>2</b>
2.1 Contact corrosion .....	2
2.2 Routing and securing wiring .....	2
<b>93 - Electric drive systems</b> .....	<b>3</b>
<b>1 General warning instructions for work on the high-voltage system</b> .....	<b>3</b>
1.1 Warning labels .....	7
<b>2 De-energising high-voltage system</b> .....	<b>9</b>
<b>3 Re-energising high-voltage system</b> .....	<b>10</b>
<b>4 Potential equalisation lines</b> .....	<b>11</b>
<b>5 General description of high-voltage technology</b> .....	<b>12</b>
5.1 Overview of high-voltage components .....	12
5.2 Maintenance connector for high-voltage system TW .....	13
<b>6 Components specific to high-voltage system</b> .....	<b>14</b>
6.1 Electric drive motor V141 .....	14
6.2 Hybrid battery unit AX1 .....	18
6.3 Power and control electronics for electric drive JX1 .....	26
6.4 High-voltage wires .....	35
6.5 Electrical air conditioner compressor V470 .....	53
6.6 Brake servo vacuum pump V469 .....	54
6.7 Cooling system for high-voltage vehicles .....	54