

Contents

00 - Technical data	1
1 Safety briefing/employee qualification	1
1.1 Qualification	1
2 Safety precautions	2
2.1 Safety precautions	2
2.2 Safety precautions for Automatic Rollover Support System	4
2.3 Safety precautions when working on the cooling system	4
2.4 Safety precautions when using testers and measuring instruments during a road test	4
3 Repair instructions	6
3.1 Important notes	6
3.2 Information on handling fine dust, aluminium dust and steel dust	7
3.3 Routing and attachment of pipes, hoses and wiring	8
3.4 Contact corrosion	8
3.5 Bonding surfaces for adhesive strips	8
3.6 Self-locking bolts	8
3.7 Identification plates	8
3.8 Impact wrenches	8
3.9 Moulded foam inserts	9
3.10 Bonded joints	11
3.11 Bonded joints	12
3.12 Galvanised body panels, high-strength and extra-high-strength steel	13
3.13 Matching the surface contour	15
3.14 Straightening and re-alignment of body parts	16
4 Vehicle identification data	17
4.1 Vehicle identification number	17
4.2 Vehicle data sticker	17
5 Overview of riveting attachments (pairs of tools)	18
5.1 Overview of rivets and tools	19
6 Body dimensions	27
7 Processing body structure adhesive D 180 004 M2	40
7.1 Preparing bonding surfaces	41
8 Extraction systems for steel/aluminium body repair station ("multi-material-mix" workplace)	54
9 Tools	56
9.1 Using edge milling unit -VAS 882 005-	59
10 Straightening jig	92
10.1 Procedure for repairing structural body damage on Audi vehicles	92
50 - Body - front	93
1 Safety precautions	93
2 Impact damper mounting - Renewal	94
2.1 Tools	94
2.2 Procedure	95
3 Upper wheel housing longitudinal member - Partial renewal	98
3.1 Tools	98
3.2 Procedure	99
4 Upper wheel housing longitudinal member - Renewal	105
4.1 Tools	105
4.2 Procedure	106
5 Front longitudinal member - Partial renewal	115
5.1 Tools	115



5.2	Procedure	116
6	Front longitudinal member with suspension turret - Renewal	120
6.1	Tools	120
6.2	Procedure	121
7	Front longitudinal member - Renewal	129
7.1	Tools	129
7.2	Procedure	130
8	Upper footwell cross member - Renewal	138
8.1	Tools	138
8.2	Procedure	139
9	Repairing threads for attachment of subframe	143
9.1	Tools	143
51 - Body - centre		150
1	Safety precautions	150
2	Permitted separating cuts on complete side panel	151
3	Windscreen frame - Renewal	152
3.1	Tools	152
3.2	Procedure	153
4	Lower A-pillar - Renewal	157
4.1	Tools	157
4.2	Procedure	158
5	Upper A-pillar - Renewal	162
5.1	Tools	162
5.2	Procedure	163
6	Lower A-pillar reinforcement - Renewal	167
6.1	Tools	167
6.2	Procedure	168
7	Upper A-pillar reinforcement - Renewal	172
7.1	Tools	172
7.2	Procedure	172
8	B-pillar - Renewal	177
8.1	Tools	177
8.2	Procedure	177
9	Outer side member - Renewal	182
9.1	Tools	182
9.2	Procedure	183
10	Outer side member reinforcement - Renewal	187
10.1	Tools	187
10.2	Procedure	188
11	Front seat cross member - Renewal	192
11.1	Tools	192
11.2	Procedure	193
12	Rear seat cross member - Renewal	197
12.1	Tools	197
12.2	Procedure	198
13	Centre tunnel - Renewal	203
13.1	Tools	203
13.2	Procedure	204
53 - Body - rear		210
1	Safety precautions	210
2	Rear cross member - Renewal	211

2.1	Tools	211
2.2	Procedure	211
3	Inner cross panel - Renewal	215
3.1	Tools	215
3.2	Procedure	215
4	Rear longitudinal member - Partial renewal	219
4.1	Tools	219
4.2	Procedure	220
5	Side panel - Renewal	228
5.1	Tools	228
5.2	Procedure	229
6	Rear wheel housing - Partial renewal	237
6.1	Tools	237
6.2	Procedure	238
7	Inner rear wheel housing - Renewal	243
7.1	Tools	243
7.2	Procedure	243
8	Luggage compartment floor - Renewal	250
8.1	Tools	250
8.2	Procedure	251