

Contents

00 - Technical data	1
1 Safety briefing/employee qualification	1
1.1 Qualification	1
2 Safety information	2
2.1 Safety information	2
2.2 Work that requires high-voltage system to be de-energised	4
2.3 Safety precautions when working on the high-voltage system	4
2.4 Safety precautions when working in the vicinity of high-voltage components	5
2.5 Safety precautions when working on the cooling system	6
2.6 Safety precautions when using testers and measuring instruments during a road test	6
3 Repair instructions	7
3.1 Important notes	7
3.2 Information on handling fine dust, aluminium dust and steel dust	8
3.3 Routing and attachment of pipes, hoses and wiring	8
3.4 Contact corrosion	9
3.5 Bonding surfaces for self-adhesive components	9
3.6 Secure threaded connections	9
3.7 Identification plates	9
3.8 Impact wrenches	9
3.9 Moulded foam inserts	10
3.10 Bonded joints	12
3.11 Galvanised body panels, high-strength and extra-high-strength steel	13
3.12 Thread repair for M6 pop rivet nut	17
3.13 Matching the surface contour	18
4 Vehicle identification data	20
4.1 Vehicle identification number	20
4.2 Type plate	21
4.3 Vehicle data sticker	22
5 Extraction systems for steel/aluminium body repair station ("multi-material-mix" workplace)	23
6 Body dimensions	25
6.1 Body - front	25
6.2 Body - centre	27
6.3 Floor group	31
6.4 Body - rear	34
7 Using edge milling unit -VAS 882 005-	37
7.1 General information	37
7.2 Assembling unit/changing milling tool	40
7.3 Separating flanged edges	50
7.4 Separating panels at corners and along surfaces	56
7.5 Separating outer edges	59
7.6 Renewing roof	62
7.7 Separating laser weld seams using round head milling unit	64
7.8 Aluminium panels	66
8 Processing body structure adhesive D 180 004 M2	69
8.1 Preparing bonding surfaces	70
9 Tools	84
10 Straightening jig	88
10.1 Procedure for repairing structural body damage on Audi vehicles	88
50 - Body - front	90
1 Safety information	90



2	Renewing support bracket (right-side)	91
2.1	Tools	91
2.2	Procedure	91
3	Renewing mounting bracket (for subframe)	96
3.1	Tools	96
3.2	Procedure	97
4	Renewing front bumper bracket	102
4.1	Tools	102
4.2	Procedure	103
5	Renewing upper wheel housing longitudinal member	107
5.1	Tools	107
5.2	Procedure	108
6	Renewing front wheel housing	114
6.1	Tools	114
6.2	Procedure	115
7	Renewing front wheel housing (part section)	121
7.1	Tools	121
7.2	Procedure	122
8	Renewing front longitudinal member	129
8.1	Tools	129
8.2	Procedure	130
9	Renewing front longitudinal member (left-side) - part section	134
9.1	Tools	134
9.2	Procedure	135
9.3	Renewing studs	143
10	Renewing front longitudinal member (right-side) - part section	145
10.1	Tools	145
10.2	Procedure	146
11	Repairing threads for attachment of subframe	154
11.1	Tools	154
51 - Body - centre		161
1	Safety information	161
2	Permitted separating cuts on complete side frame	162
3	Renewing roof	164
3.1	Tools	164
3.2	Procedure	171
4	Renewing roof (version with large sunroof)	186
4.1	Tools	186
4.2	Procedure	187
5	Renewing roof (Sportback)	200
5.1	Tools	200
5.2	Procedure	207
6	Renewing roof (vehicles with panoramic tilting sunroof - Sportback)	223
6.1	Tools	223
6.2	Procedure	230
7	Renewing roof side member	245
7.1	Tools	245
7.2	Procedure	245
8	Renewing front roof cross member	252
8.1	Tools	252
8.2	Procedure	252

9	Renewing rear roof cross member	256
9.1	Tools	256
9.2	Procedure	256
10	Renewing outer A-pillar	262
10.1	Tools	262
10.2	Procedure	263
11	Renewing upper inner A-pillar - partial renewal	267
11.1	Tools	267
11.2	Procedure	267
12	Renewing A-pillar reinforcement (part section)	279
12.1	Tools	279
12.2	Procedure	279
13	Renewing outer B-pillar	285
13.1	Tools	285
13.2	Procedure	286
14	Inner B-pillar - Partial renewal	292
14.1	Tools	292
14.2	Procedure	293
15	Renewing outer side member	307
15.1	Tools	307
15.2	Procedure	308
16	Renewing inner side member	313
16.1	Tools	313
16.2	Procedure	313
17	Renewing inner side member reinforcement	317
17.1	Tools	317
17.2	Procedure	317
18	Renewing mounting for seat cross member (outer)	324
18.1	Tools	324
18.2	Procedure	325
19	Centre seat cross member - Renewal	329
19.1	Tools	329
19.2	Procedure	330
20	Renewing mounting for seat cross member (inner)	334
20.1	Tools	334
20.2	Procedure	335
21	Renewing upper footwell cross member	339
21.1	Tools	339
21.2	Procedure	340
22	Renewing outer footwell cross member - partial renewal	346
22.1	Tools	346
22.2	Procedure	346
23	Renewing floor panel	352
23.1	Tools	352
23.2	Procedure	352
24	Centre tunnel - Renewal	357
24.1	Tools	357
24.2	Procedure	357
53 - Body - rear	362	
1	Safety information	362
2	Permitted separating cuts on complete side frame	363



3	Renewing rear upper cross panel	364
3.1	Tools	365
3.2	Procedure	366
4	Renewing rear cross panel	370
4.1	Tools	370
4.2	Procedure	371
5	Renewing rear longitudinal member (part section)	378
5.1	Tools	378
5.2	Procedure	379
6	Renewing rear longitudinal member (second separating cut) - part section	385
6.1	Tools	385
6.2	Procedure	386
7	Renewing rear inner side frame	400
7.1	Tools	400
7.2	Procedure	401
8	Renewing side panel	410
8.1	Tools	410
8.2	Procedure	411
9	Renewing luggage compartment floor	418
9.1	Tools	418
9.2	Procedure	419
10	Renewing rear outer wheel housing - partial renewal	425
10.1	Tools	425
10.2	Procedure	426
11	Renewing rear wheel housing	431
11.1	Tools	431
11.2	Procedure	432