



Contents

00 - Technical data	1
1 Basic instructions	1
2 Vehicle identification data	2
2.1 Vehicle identification number	2
2.2 Identification plate	3
2.3 Vehicle data sticker	4
3 Safety information	5
4 Body work for which HV electrical system must be de-energised	6
4.1 The following body work requires the HV electrical system to be de-energised.	6
5 Moulded foam inserts	7
6 Galvanized body parts, high- and higher-strength and hot-formed body panels	9
6.1 Installing	9
6.2 Overview - NAR vehicles	11
6.3 Overview - ROW vehicles	14
7 Body panel gaps/shut lines	17
7.1 Body - front	17
7.2 Body - centre	18
7.3 Body - rear	19
8 Body dimensions	20
8.1 Body - front	20
8.2 Body - centre	23
8.3 Body - rear	30
8.4 Floor panel - front	32
8.5 Floor panel - centre	34
8.6 Floor panel - rear	35
9 Contour correct surfaces	37
10 Tools	38
11 Alignment bracket set	39
11.1 Overview	39
11.2 Procedure for body structural damage on vehicles from Volkswagen	39
12 Portal gauge	40
50 - Body - front	41
1 Renewing right bracket	41
1.1 Tools	41
1.2 Removing	41
1.3 Installing	43
2 Renewing left bracket	45
2.1 Tools	46
2.2 Removing	46
2.3 Installing	48
3 Renewing subframe	50
3.1 Tools	50
3.2 Removing	50
3.3 Installing	52
4 Renewing bumper bracket	54
4.1 Tools	55
4.2 Removing	55
4.3 Installing	56
5 Renewing upper wheel housing longitudinal member	58



5.1	Tools	59
5.2	Removing	59
5.3	Installing	62
6	Renewing front wheel housing	69
6.1	Tools	70
6.2	Removing	70
6.3	Installing	71
7	Repairing threads for securing subframe (suspension subframe)	75
7.1	Contents of thread repair kit	77
7.2	Repairing threads	77
8	Renewing front longitudinal member	81
8.1	Tools	82
8.2	Removing	82
8.3	Installing	84
9	Renewing front longitudinal member - part section	88
9.1	Tools	89
9.2	Removing	89
9.3	Installing	91
10	Renewing front right longitudinal member - part section	100
10.1	Tools	101
10.2	Removing	101
10.3	Installing	103
51 - Body - centre		108
1	Renewing roof - vehicles with no sliding/tilting sunroof	108
1.1	Tools	109
1.2	Removing	110
1.3	Installing	112
2	Renewing roof - vehicles with sliding/tilting sunroof	123
2.1	Tools	124
2.2	Removing	125
2.3	Installing	128
3	Renewing roof side member	140
3.1	Tools	141
3.2	Removing	141
3.3	Installing	143
4	Renewing front cross member for roof	148
4.1	Tools	149
4.2	Removing	149
4.3	Installing	150
5	Renewing roof reinforcement - vehicles for NAR, with no sliding/tilting sunroof	152
5.1	Tools	153
5.2	Removing	153
5.3	Installing	154
6	Renewing rear roof cross member	156
6.1	Tools	157
6.2	Removing	157
6.3	Installing	158
7	Renewing A-pillar	160
7.1	Tools	161
7.2	Removing	161
7.3	Installing	163
8	Renewing A-pillar reinforcement - part section	170
8.1	Tools	171



8.2	Removing	171
8.3	Installing	172
9	Renewing B-pillar	177
9.1	Tools	178
9.2	Removing	178
9.3	Installing	180
10	Renewing B-pillar reinforcement, non-hybrid vehicles	187
10.1	Tools	188
10.2	Removing	188
10.3	Installing	190
11	Renewing B-pillar reinforcement, hybrid vehicles	197
11.1	Tools	198
11.2	Removing	198
11.3	Installing	200
12	Renewing inner B-pillar	207
12.1	Tools	208
12.2	Removing	208
12.3	Installing	209
13	Renewing side member	212
13.1	Tools	213
13.2	Removing	213
13.3	Installing	215
14	Renewing front side member reinforcement, non-hybrid vehicles	221
14.1	Tools	222
14.2	Removing	222
14.3	Installing	223
15	Renewing front side member reinforcement, hybrid vehicles	227
15.1	Tools	228
15.2	Removing	228
15.3	Installing	229
16	Renewing rear side member reinforcement	233
16.1	Tools	234
16.2	Removing	234
16.3	Installing	235
17	Renewing outer mounting for seat cross member	238
17.1	Tools	239
17.2	Removing	240
17.3	Installing	241
18	Renewing inner mounting for seat cross member	244
18.1	Tools	244
18.2	Removing	244
18.3	Installing	246
19	Renewing seat middle cross member	249
19.1	Tools	249
19.2	Removing	249
19.3	Installing	251
53 - Body - rear		254
1	Renewing cross panel	254
1.1	Tools	255
1.2	Removing	255
1.3	Installing	256
2	Renewing lock carrier	259
2.1	Tools	259



2.2	Removing	259
2.3	Installing	261
3	Renewing tail light mounting	263
3.1	Tools	264
3.2	Removing	264
3.3	Installing	265
4	Renewing tail light reinforcement, hybrid vehicles	267
4.1	Tools	268
4.2	Removing	268
4.3	Installing	269
5	Renewing luggage compartment floor	271
5.1	Tools	272
5.2	Removing	273
5.3	Installing	275
6	Renewing C-pillar reinforcement - part section	282
6.1	Tools	283
6.2	Removing	283
6.3	Installing	284
7	Renewing rear longitudinal member - part section	287
7.1	Tools	288
7.2	Removing	288
7.3	Installing	289
8	Renewing rear longitudinal member - subpart	292
8.1	Tools	293
8.2	Removing	293
8.3	Installing	294
9	Renewing rear longitudinal member reinforcement, hybrid vehicles	296
9.1	Tools	297
9.2	Removing	297
9.3	Installing	298
10	Renewing rear battery mounting, hybrid vehicles	302
10.1	Tools	303
10.2	Removing	303
10.3	Installing	304
11	Renewing side panel - part section	307
11.1	Tools	308
11.2	Removing	308
11.3	Installing	311
12	Renewing outer wheel housing liner	318
12.1	Tools	319
12.2	Removing	319
12.3	Installing	320