

2014 Volkswagen Passat

Quick Reference Specification Book

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GENERAL INFORMATION

Decimal and Metric Equivalents

Distance/Length

To calculate: mm x 0.03937 = in.

mm	in.	mm	in.	mm	in.	mm	in.
0.002	0.00008	0.01	0.0004	0.1	0.004	1	0.04
0.004	0.00016	0.02	0.0008	0.2	0.008	2	0.08
0.006	0.00024	0.03	0.0012	0.3	0.012	3	0.12
0.008	0.00031	0.04	0.0016	0.4	0.016	4	0.16
0.010	0.00039	0.05	0.0020	0.5	0.020	5	0.20
0.020	0.00079	0.06	0.0024	0.6	0.024	6	0.24
0.030	0.00118	0.07	0.0028	0.7	0.028	7	0.28
0.040	0.00157	0.08	0.0031	0.8	0.031	8	0.31
0.050	0.00197	0.09	0.0035	0.9	0.035	9	0.35
0.060	0.00236	0.10	0.0039	1.0	0.039	10	0.39
0.070	0.00276	0.20	0.0079	2.0	0.079	20	0.79
0.080	0.00315	0.30	0.0118	3.0	0.118	30	1.18
0.090	0.00354	0.40	0.0157	4.0	0.157	40	1.57
0.100	0.00394	0.50	0.0197	5.0	0.197	50	1.97
0.200	0.00787	0.60	0.0236	6.0	0.236	60	2.36
0.300	0.01181	0.70	0.0276	7.0	0.276	70	2.76
0.400	0.01575	0.80	0.0315	8.0	0.315	80	3.15
0.500	0.01969	0.90	0.0354	9.0	0.354	90	3.54
0.600	0.02362	1.00	0.0394	10.0	0.394	100	3.94
0.700	0.02756	2.00	0.0787	20.0	0.787		
0.800	0.03150	3.00	0.1181	30.0	1.181		
0.900	0.03543	4.00	0.1575	40.0	1.575		
1.000	0.03937	5.00	0.1969	50.0	1.969		
2.000	0.07874	6.00	0.2362	60.0	2.362		
3.000	0.11811	7.00	0.2756	70.0	2.756		
4.000	0.15748	8.00	0.3150	80.0	3.150		
5.000	0.19685	9.00	0.3543	90.0	3.543		
6.000	0.23622	10.00	0.3937	100.0	3.937		
7.000	0.27559	20.00	0.7874				
8.000	0.31496	30.00	1.1811				
9.000	0.35433	40.00	1.5748				
10.000	0.39370	50.00	1.9685				
20.000	0.78740	60.00	2.3622				
30.000	1.18110	70.00	2.7559				
40.000	1.57480	80.00	3.1496				
50.000	1.96850	90.00	3.5433				
60.000	2.36220	100.00	3.9370				
70.000	2.75591						
80.000	3.14961						
90.000	3.54331						
100.000	3.93701						

Tightening Torque

Nm-to-lb·ft (ft·lb)

To calculate: Nm x 0.738 = lb·ft

Nm	lb·ft (ft·lb)		Nm	lb·ft (ft·lb)		Nm	lb·ft (ft·lb)
10	7		55	41		100	74
11	8		56	41		105	77
12	9		57	42		110	81
13	10		58	43		115	85
14	10		59	44		120	89
15	11		60	44		125	92
16	12		61	45		130	96
17	13		62	46		135	100
18	13		63	46		140	103
19	14		64	47		145	107
20	15		65	48		150	111
21	15		66	49		155	114
22	16		67	49		160	118
23	17		68	50		165	122
24	18		69	51		170	125
25	18		70	52		175	129
26	19		71	52		180	133
27	20		72	53		185	136
28	21		73	54		190	140
29	21		74	55		195	144
30	22		75	55		200	148
31	23		76	56		205	151
32	24		77	57		210	155
33	24		78	58		215	159
34	25		79	58		220	162
35	26		80	59		225	166
36	27		81	60		230	170
37	27		82	60		235	173
38	28		83	61		240	177
39	29		84	62		245	181
40	30		85	63		250	184
41	30		86	63		260	192
42	31		87	64		270	199
43	32		88	65		280	207
44	32		89	66		290	214
45	33		90	66		300	221
46	34		91	67		310	229
47	35		92	68		320	236
48	35		93	69		330	243
49	36		94	69		340	251
50	37		95	70		350	258
51	38		96	71		360	266
52	38		97	72		370	273
53	39		98	72		380	280
54	40		99	73		390	288
55	41		100	74		400	295

Nm-to-lb·in (in·lb), kg·cm

To calculate: $\text{Nm} \times 8.85 = \text{lb} \cdot \text{in}$ • $\text{Nm} \times 10.20 = \text{kg} \cdot \text{cm}$

Nm	lb·in (in·lb)	kg·cm	Nm	lb·in (in·lb)	kg·cm
1	9	10	26	230	265
2	18	20	27	239	275
3	27	31	28	248	286
4	35	41	29	257	296
5	44	51	30	266	306
6	53	61	31	274	316
7	62	71	32	283	326
8	71	82	33	292	337
9	80	92	34	301	347
10	89	102	35	310	357
11	97	112	36	319	367
12	106	122	37	327	377
13	115	133	38	336	387
14	124	143	39	345	398
15	133	153	40	354	408
16	142	163	41	363	418
17	150	173	42	372	428
18	159	184	43	381	438
19	168	194	44	389	449
20	177	204	45	398	459
21	186	214	46	407	469
22	195	224	47	416	479
23	204	235	48	425	489
24	212	245	49	434	500
25	221	255	50	443	510

N·cm-to-lb·in (in·lb), kg·cm

To calculate: $\text{N} \cdot \text{cm} \times 0.089 = \text{lb} \cdot \text{in}$ • $\text{N} \cdot \text{cm} \times 0.102 = \text{kg} \cdot \text{cm}$

N·cm	lb·in (in·lb)	kg·cm	N·cm	lb·in (in·lb)	kg·cm
50	4	5	250	22	25
60	5	6	300	27	31
70	6	7	350	31	36
80	7	8	400	35	41
90	8	9	450	40	46
100	9	10	500	44	51
110	10	11	550	49	56
120	11	12	600	53	61
130	12	13	650	58	66
140	12	14	700	62	71
150	13	15	750	66	76
160	14	16	800	71	82
170	15	17	850	75	87
180	16	18	900	80	92
190	17	19	950	84	97
200	18	20	1000	89	102

kg·cm-to-lb·in (in·lb), N·cm

To calculate: $\text{kg}\cdot\text{cm} \times 0.868 = \text{lb}\cdot\text{in}$ • $\text{kg}\cdot\text{cm} \times 9.81 = \text{N}\cdot\text{cm}$

kg·cm	lb·in (in·lb)	N·cm		kg·cm	lb·in (in·lb)	N·cm
5	4	49		110	95	1079
6	5	59		120	104	1177
7	6	69		130	113	1275
8	7	78		140	122	1373
9	8	88		150	130	1471
10	9	98		160	139	1569
20	17	196		170	148	1667
30	26	294		180	156	1765
40	35	392		190	165	1863
50	43	490		200	174	1961
60	52	588		210	182	2059
70	61	686		220	191	2157
80	69	785		230	200	2256
90	78	883		240	208	2354
100	87	981		250	217	2452

Warnings and Cautions

WARNINGS

- Some repairs may be beyond your capability. If you lack the skills, tools and equipment, or a suitable workplace for any procedure described in this manual, we suggest you leave such repairs to an authorized dealer service department or other qualified shop.
- Do not reuse any fasteners that have become worn or deformed during normal use. Many fasteners are designed to be used only once and become unreliable and may fail when used a second time. This includes, but is not limited to, nuts, bolts, washers, self-locking nuts or bolts, circlips and cotter pins. Always replace these fasteners with new parts.
- Never work under a lifted car unless it is solidly supported on stands designed for the purpose. Do not support a car on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a car that is supported solely by a jack. Never work under the car while the engine is running.
- If you are going to work under a car on the ground, make sure the ground is level. Block the wheels to keep the car from rolling. Disconnect the battery negative (-) terminal (ground strap) to prevent others from starting the car while you are under it.

- Never run the engine unless the work area is well ventilated. Carbon monoxide kills.
- Remove rings, bracelets and other jewelry so they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Tie back long hair. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not attempt to work on your car if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset, or have taken medication or any other substance that may keep you from being fully alert.
- Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the car. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel, vapors or oil.
- Use a suitable container to catch draining fuel, oil, or brake fluid. Do not use food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store oily rags which can ignite and burn spontaneously.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with battery acid. Wear gloves or other protective clothing whenever the job requires working with harmful substances.
- Greases, lubricants and other automotive chemicals contain toxic substances, many of which are absorbed directly through the skin. Read the manufacturer's instructions and warnings carefully. Use hand and eye protection. Avoid direct skin contact
- Disconnect the battery negative (-) terminal (ground strap) whenever you work on the fuel or electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Friction materials (such as brake pads or shoes or clutch discs) contain asbestos fibers or other friction materials. Do not create dust by grinding, sanding, or cleaning with compressed air. Avoid breathing dust. Breathing any friction material dust can lead to serious diseases and may result in death.

(WARNINGS cont'd on next page)

WARNINGS (cont'd)

- Batteries give off explosive hydrogen gas during charging. Keep sparks, lighted matches and open flame away from the top of the battery. If hydrogen gas escaping from the cap vents is ignited, it ignites the gas trapped in the cells and causes the battery to explode.
- Connect and disconnect battery cables, jumper cables or a battery charger only with the ignition off. Do not disconnect the battery while the engine is running.
- Do not quick-charge the battery (for boost starting) for longer than one minute. Wait at least one minute before boosting the battery a second time.
- Do not allow battery charging voltage to exceed 16.5 volts. If the battery begins producing gas or boiling violently, reduce the charging rate. Boosting a sulfated battery at a high charging rate can cause an explosion.
- The A/C system is filled with chemical refrigerant, which is hazardous. The A/C system should be serviced only by trained technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat increases system pressure and may cause the system to burst.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- Some cars are equipped with a Supplemental Restraint System (SRS) that automatically deploys airbags and pyrotechnic seat belt tensioners in the event of a frontal or side impact. These are explosive devices. Handled improperly or without adequate safeguards, they can be accidentally activated and cause serious injury.
- The ignition system produces high voltages that can be fatal. Avoid contact with exposed terminals and use extreme care when working on a car with the engine running or the ignition on.

- Place jack stands only at locations specified by manufacturer. The vehicle lifting jack supplied with the vehicle is intended for tire changes only. Use a heavy duty floor jack to lift the vehicle before installing jack stands.
- Battery acid (electrolyte) can cause severe burns. Flush contact area with water, seek medical attention.
- Aerosol cleaners and solvents may contain hazardous or deadly vapors and are highly flammable. Use only in a well ventilated area. Do not use on hot surfaces (such as engines or brakes).
- Do not remove coolant reservoir or radiator cap with the engine hot. Burns and engine damage may occur.

CAUTIONS

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized dealer or other qualified shop.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly and do not attempt shortcuts. Use tools appropriate to the work and use only replacement parts meeting original specifications. Makeshift tools, parts and procedures will not make good repairs.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque specification listed.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond or lake. Dispose of in accordance with Federal, State and Local laws.
- The control module for the Anti-lock Brake System (ABS) cannot withstand temperatures from a paint-drying booth or a heat lamp in excess of 95°C (203°F) and should not be subjected to temperatures exceeding 85°C (185°F) for more than two hours.
- Before doing any electrical welding on cars equipped with ABS, disconnect the battery negative (-) terminal (ground strap) and the ABS control module connector.
- Always make sure the ignition is off before disconnecting battery.

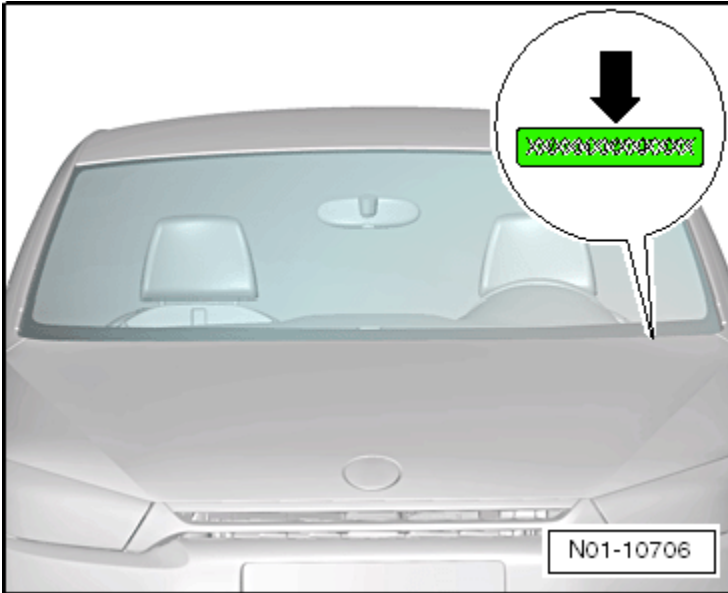
(CAUTIONS cont'd on next page)

CAUTIONS *(cont'd)*

- Label battery cables before disconnecting. On some models, battery cables are not color coded.
- Disconnecting the battery may erase fault code(s) stored in control module memory. Check for fault codes prior to disconnecting the battery cables.
- If a normal or rapid charger is used to charge the battery, disconnect the battery and remove it from the vehicle to avoid damaging paint and upholstery.
- Do not quick-charge the battery (for boost starting) for longer than one minute. Wait at least one minute before boosting the battery a second time.
- Connect and disconnect a battery charger only with the battery charger switched off.
- Sealed or “maintenance free” batteries should be slow-charged only, at an amperage rate that is approximately 10% of the battery’s ampere-hour (Ah) rating.
- Do not allow battery charging voltage to exceed 16.5 volts. If the battery begins producing gas or boiling violently, reduce the charging rate. Boosting a sulfated battery at a high charging rate can cause an explosion.

VEHICLE IDENTIFICATION

Vehicle Identification Number (VIN) Location



Vehicle
Identification

The VIN (➡) is on the left side of the vehicle in the area of the windshield wiper mount. It is visible from the outside.

VIN Decoder

Series:

A* CC Sport w/Man Trans, Passat S, Tiguan w/Auto Trans

B* CC Sport/Sport w/Auto Trans, Eos KomfortSport w/Auto Trans, Jetta SE w/5 Spd Man, Passat SE, Tiguan w/Auto Trans and 4 Motion

C* Golf 4dr w/5 Spd Manual, Passat SEL, Tiguan w/Man Trans

D* Golf 4dr w/Auto Trans, Jetta SE w/Auto Trans, Touareg V6 FSI/TDI R-Line

E* Touareg V6 FSI/TDI Hybrid

F* Beetle w/5 Spd Auto Trans, Eos Lux/Exec w/Auto Trans

G* CC V6 Exec w/Auto Trans and 4Motion, GTI 4dr w/Man Trans, Jetta SEL w/5 Spd Man Trans

H* Beetle 1.8T w/5 Spd Man Trans, CC V6 Exec w/Auto Trans, Beetle 2.5L w/5 Spd Manual, GTI 4dr w/Auto Trans

J* Beetle 1.8T w/5 Spd Auto Trans, Beetle 2.5L TDI w/5 Spd Auto Trans

2014 Volkswagen VIN Decoder (except Routan)

Country of origin	Manufacturer	Vehicle Type	Series	Engine	Restraint system	Model (7 & 8)	Check digit	Model year	Assembly plant	Sequential production number (position 12 - 17)						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
W	V	G	C	V	3	A	X	8	E	W	5	3	2	0	1	4

WWV = Europe - Pass. Car

1VW = USA - Pass. Car

3WV = Mexico - Pass. Car

WVG = Europe - S.U.V.

A3** = Passat

AH (1F) = Eos

AJ (1F1)** = Golf, GTI, Jetta, SportWagen

AN (3C) = CC

AT = Beetle, Beetle Conv.

AX (5N) = Tiguan

BP (7P) = Touareg

C = Chattanooga **P** = Mosel

D = Bratislava **V** = Portugal

E = Emden **W** = Wolfsburg

M = Mexico

E = 2014

Sequential production number (position 12 - 17)

***** 7 position US model characters are alphabetic beginning with 2010 MY. ROW model characters, where different, are listed in parenthesis (), for reference only.**

***** Jetta and Jetta SportWagen models are identified by WMI code of 3VW. GTI and Golf models are identified by WMI code of WWV.**

October 30, 2013 (Rev 4)

2014 Restraint System:

A1 = Active-DrivePass - Front Air Bag - DrivePass

3 (Tiguan) = Advanced Front Air Bags + Side Impact Air Bags - Front

4 = Side Curtain Air Bags + 4 Star Crash Rated

5 (Jetta Only) or 7 (Jetta SportWagen/CC/Passat) = Advanced Front Air Bags

6 = Side Impact Air Bags - Fr. + Side Curtain Air Bags

7 (Beetle/Beetle Conv.) = Advanced Front Air Bags + Side Impact Air Bags - Front + 3 Star Crash Rated

8 (Eos Only) = Advanced Front Air Bags + Side Impact Air Bags - Front + Knee Air Bags - Front + Side Curtain Air Bags

9 (Touareg) = Advanced Front Air Bags + Side Impact Air Bags - Front + Side Curtain Air Bags

M = 1991

N = 1992

P = 1993

R = 1994

S = 1995

T = 1996

V = 1997

W = 1998

X = 1999

Y = 2000

1 = 2001

2 = 2002

3 = 2003

4 = 2004

5 = 2005

6 = 2006

7 = 2007

8 = 2008

9 = 2009

A = 2010

B = 2011

C = 2012

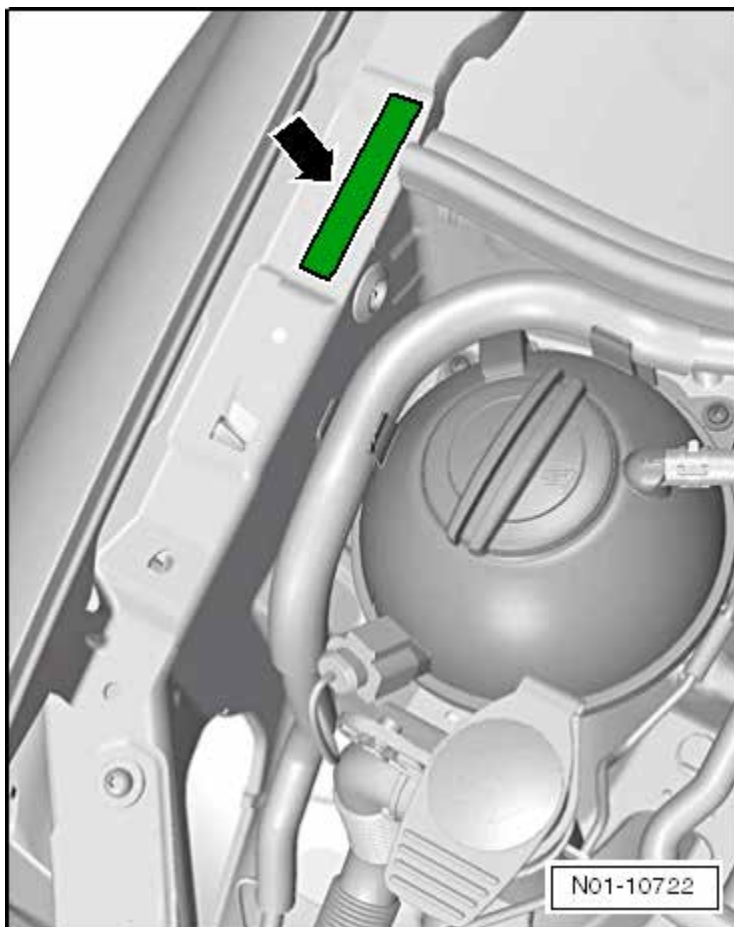
D = 2013

E = 2014

2014 Volkswagen VIN Decoder (except Routan)

Country of origin	Manufacturer	Vehicle Type	Series	Engine	Restraint system	Model	Model year	Assembly plant	Sequential production number (position 12 - 17)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

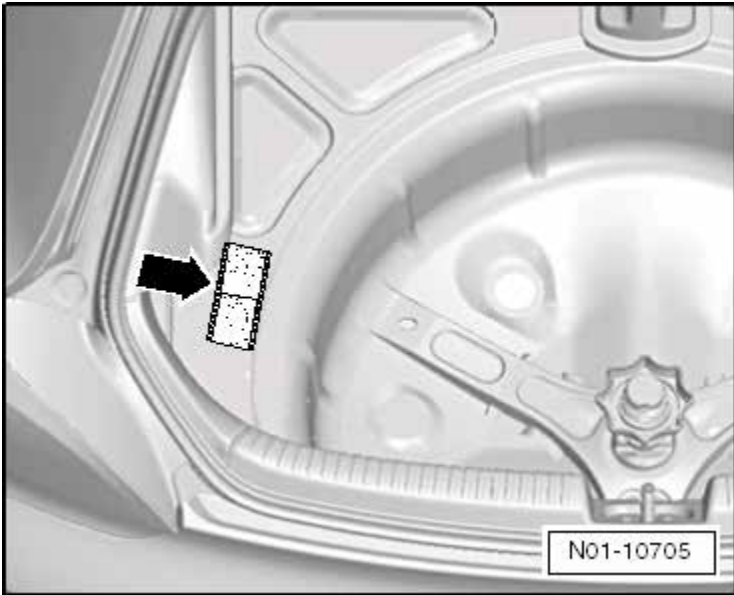
VIN on Longitudinal Member Extension



Vehicle
Identification

The Vehicle Identification Number (VIN) is located on the longitudinal member extension (➡).

Vehicle Data Label



The vehicle data label (➡) is located in the left rear of the vehicle in the spare wheel well. The vehicle data label is also in the customer's maintenance booklet.

SALES CODES

Engine Codes

CPKA, CPRA	1.8L 4-cylinder
CKRA	2.0L 4-cylinder Turbo Diesel (TDI)
CBTA/CBUA	2.5L 5-cylinder
CDVB	3.6L 6-cylinder

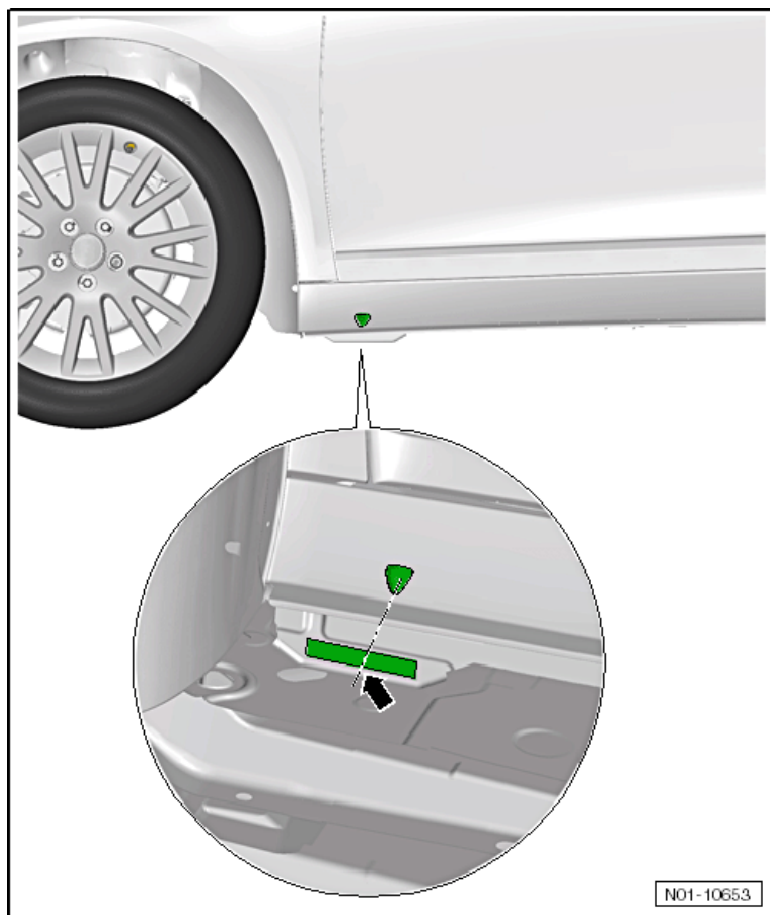
Transmission Codes

0A4	5-speed manual
02Q	6-speed manual
02E	6-speed Direct Shift Gearbox (DSG)
09G	6-speed automatic

VEHICLE LIFTING

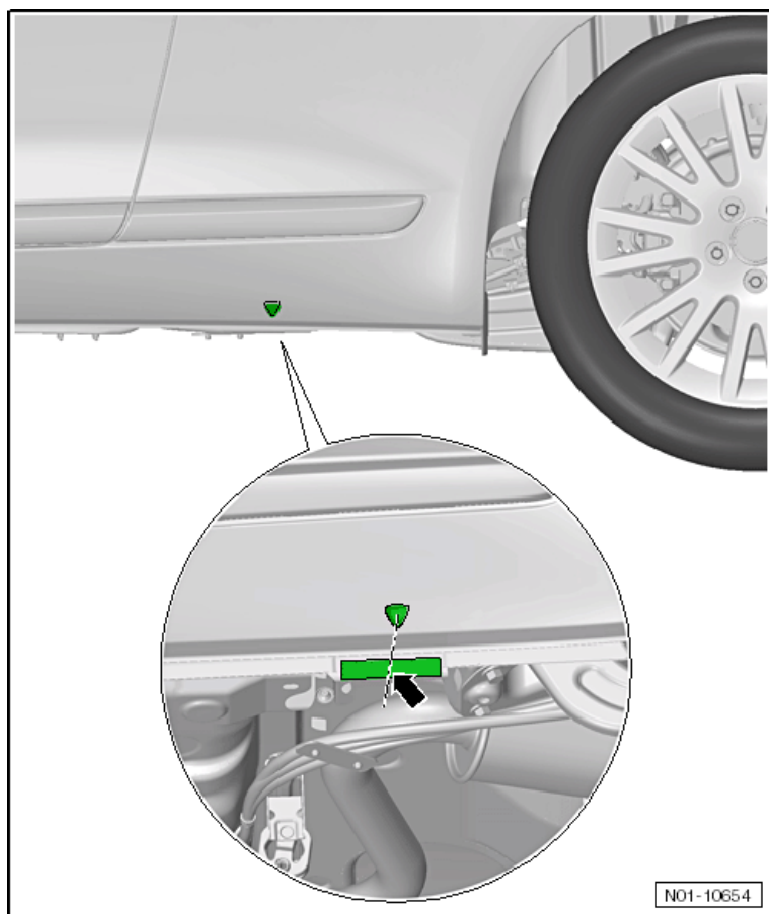
Hoist and Jack Mounting Points

Front



Position the support plate in the side member vertical reinforcement area (➡).

Rear



Position the support plate in the side member vertical reinforcement area (➡).



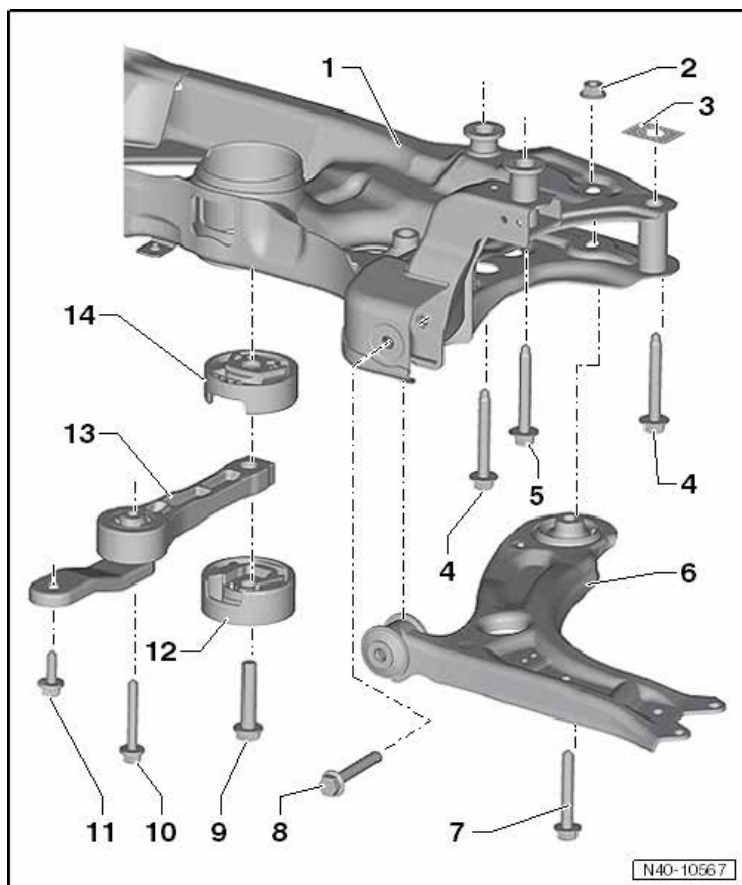
WARNING

Make sure the side member stiffener contacts the support plate of the lifting platform at center.

SUSPENSION, WHEELS, STEERING

Front Suspension

Subframe Overview



1 - Subframe

2 - Nut

3 - Backing Plate

4 - Bolt

- ☐ 70 Nm + 180° turn
- ☐ M12 x 1.5 x 100
- ☐ Always replace

5 - Bolt

- ☐ 70 Nm + 180° turn
- ☐ M12 x 1.5 x 90
- ☐ Always replace

6 - Control Arm

7 - Bolt

- ☐ 70 Nm + 180° turn
- ☐ M12 x 1.5 x 80
- ☐ Always replace

8 - Bolt

- ☐ 70 Nm + 180° turn
- ☐ M12 x 1.5 x 80
- ☐ Always replace

9 - Bolt

- ☐ 100 Nm + 90° turn
- ☐ M14 x 1.5 x 70
- ☐ Always replace

10 - Bolt

- ☐ 50 Nm + 90° turn
- ☐ M10 x 75
- ☐ Always replace

11 - Bolt

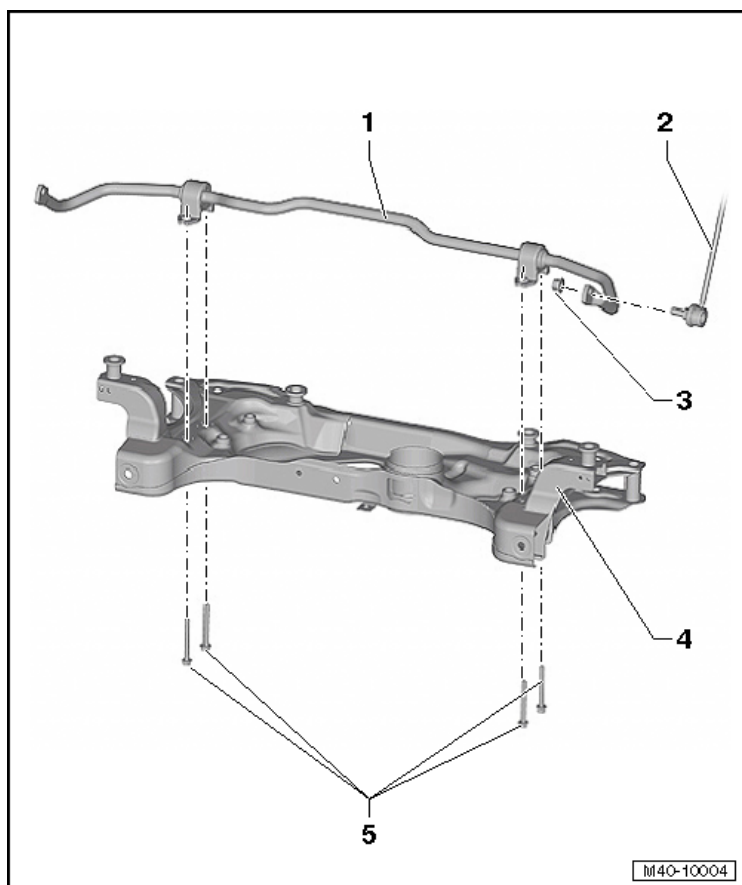
- ☐ 50 Nm + 90° turn
- ☐ M10 x 75
- ☐ Always replace

12 - Lower Bonded Rubber Bushing for Pendulum Support

13 - Pendulum Support

14 - Upper Bonded Rubber Bushing for Pendulum Support

Stabilizer Bar Assembly Overview



1 - Stabilizer Bar

2 - Coupling Rod

3 - Nut

☐ 65 Nm

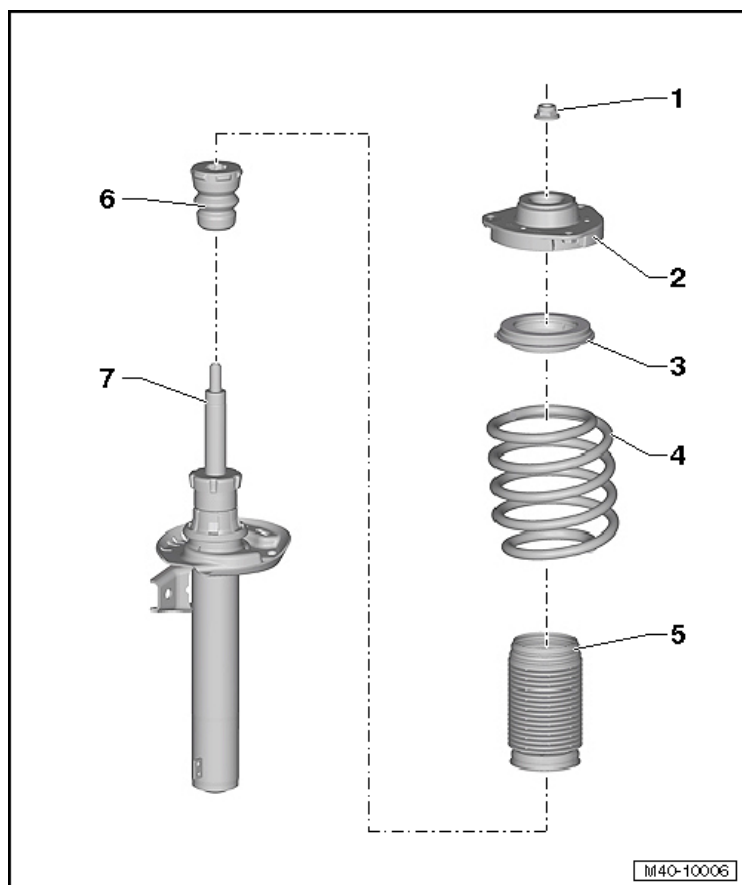
4 - Subframe

5 - Bolt

☐ 20 Nm + 90° turn

☐ Always replace if removed

Suspension Strut and Upper Control Arm Overview



1 - Nut

- ☐ 60 Nm
- ☐ Always replace if removed

2 - Suspension Strut Bearing

3 - Axial Groove Ball Bearing

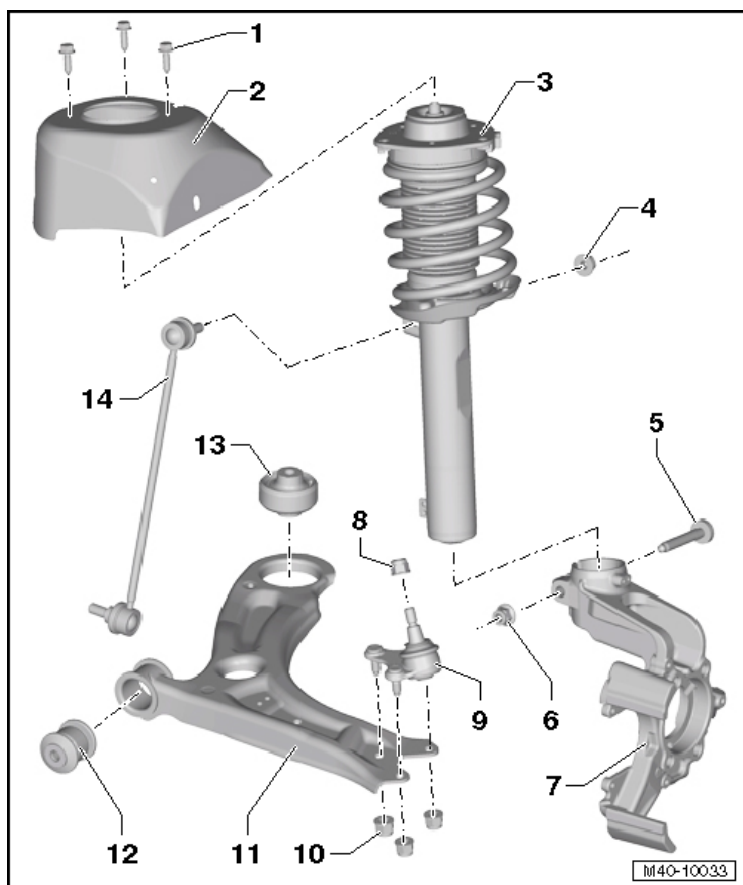
4 - Coil Spring

5 - Protective Sleeve

6 - Stop Buffer

7 - Shock Absorber

Lower Control Arm and Ball Joint Overview



- 1 - Bolt**
 - ☐ 15 Nm + 90° turn
 - ☐ Always replace if removed
- 2 - Body, Front**
- 3 - Suspension Strut**
- 4 - Nut**
 - ☐ 65 Nm
- 5 - Internal Multipoint Bolt**
- 6 - Nut**
 - ☐ 70 Nm + 90° turn
 - ☐ Always replace if removed
- 7 - Wheel Bearing Housing**
 - ☐ There are different versions
- 8 - Nut**
 - ☐ 60 Nm
- 9 - Ball Joint**

10 - Nut

☐ 100 Nm

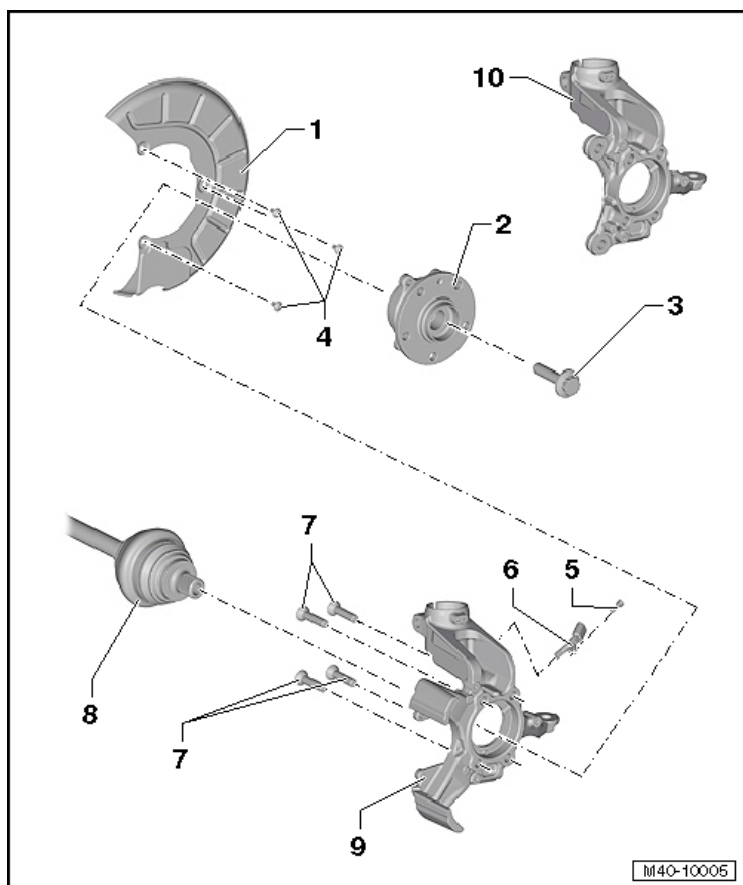
11 - Control Arm

12 - Front Bonded Rubber Bushing

13 - Rear Bonded Rubber Bushing, Rear

14 - Coupling Rod

Wheel Bearing Overview



1 - Cover Plate

2 - Wheel Hub with Wheel Bearing

- ☐ There are different versions

3 - Bolt

- ☐ 200 Nm + 180° turn
- ☐ Always replace if removed

4 - Bolt

- ☐ 12 Nm

5 - Hex Socket Head Bolt

- ☐ 8 Nm

6 - Left Front ABS Wheel Speed Sensor -G47-/Right Front ABS Wheel Speed Sensor -G45-

7 - Bolt

- ☐ 70 Nm + 90° turn
- ☐ Always replace if removed

8 - Drive Axle

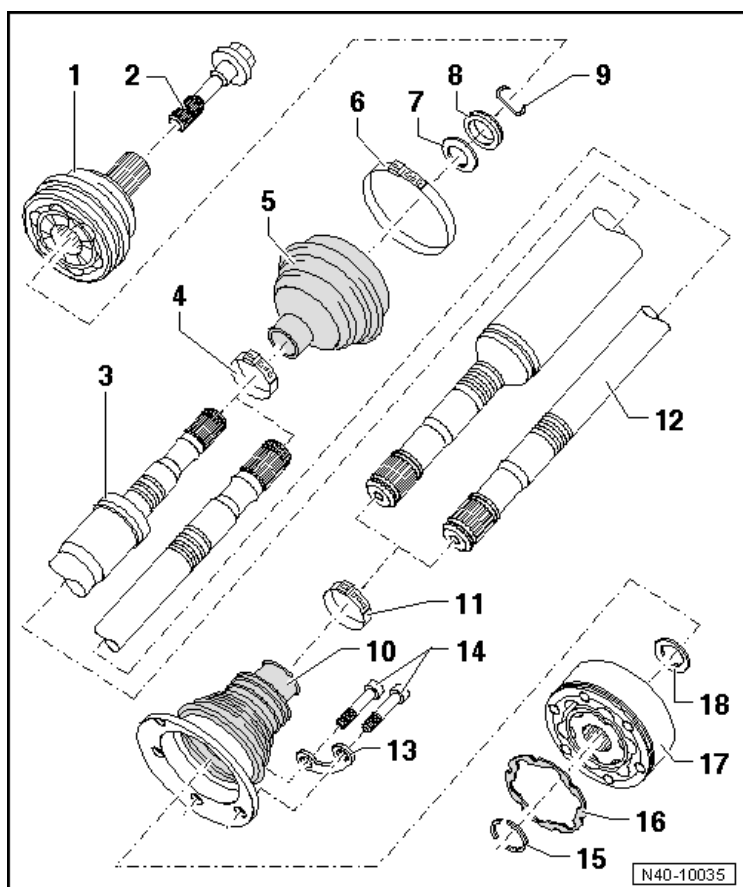
9 - Wheel Bearing Housing

- ☐ With integrated brake carrier

10 - Wheel Bearing Housing

- ☐ With fastened brake carrier

Drive Axle Overview, CV Joint VL 100



1 - Outer CV Joint

2 - Bolt

- ☐ 200 Nm + 180° turn
- ☐ Always replace if removed

3 - Right Drive Axle

4 - Clamp

- ☐ Always replace if removed

5 - Protective Boot

6 - Clamp

- ☐ Always replace if removed

7 - Plate Spring

8 - Thrust Ring

9 - Locking Ring

- ☐ Always replace if removed

10 - CV Boot

11 - Clamp

- ☐ Always replace if removed

12 - Left Drive Axle

13 - Locking Plate

14 - Internal Multipoint Bolt

- ☐ First tighten diagonally to 10 Nm, then tighten diagonally again to the tightening specification
- ☐ M8 bolt = 40 Nm
- ☐ M10 bolt = 70 Nm
- ☐ After disassembly, always replace bolts

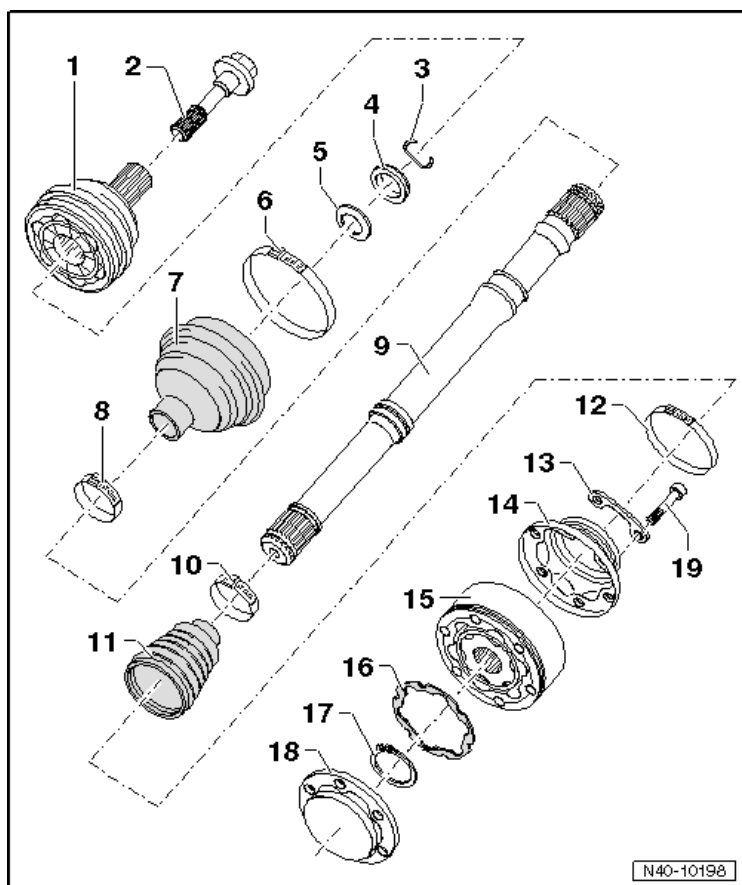
15 - Locking Ring

16 - Gasket

17 - Inner CV Joint

18 - Plate Spring

Drive Axle Overview, CV Joint VL 107



1 - Outer CV Joint

2 - Bolt

- ☐ 200 Nm + 180° turn
- ☐ Always replace if removed

3 - Locking Ring

- ☐ Always replace if removed

4 - Thrust Ring

5 - Plate Spring

6 - Clamp

- ☐ Always replace if removed

7 - Protective Boot

8 - Clamp

- ☐ Always replace if removed

9 - Drive Axle

10 - Clamp

- ☐ Always replace if removed

11 - CV Boot

12 - Clamp

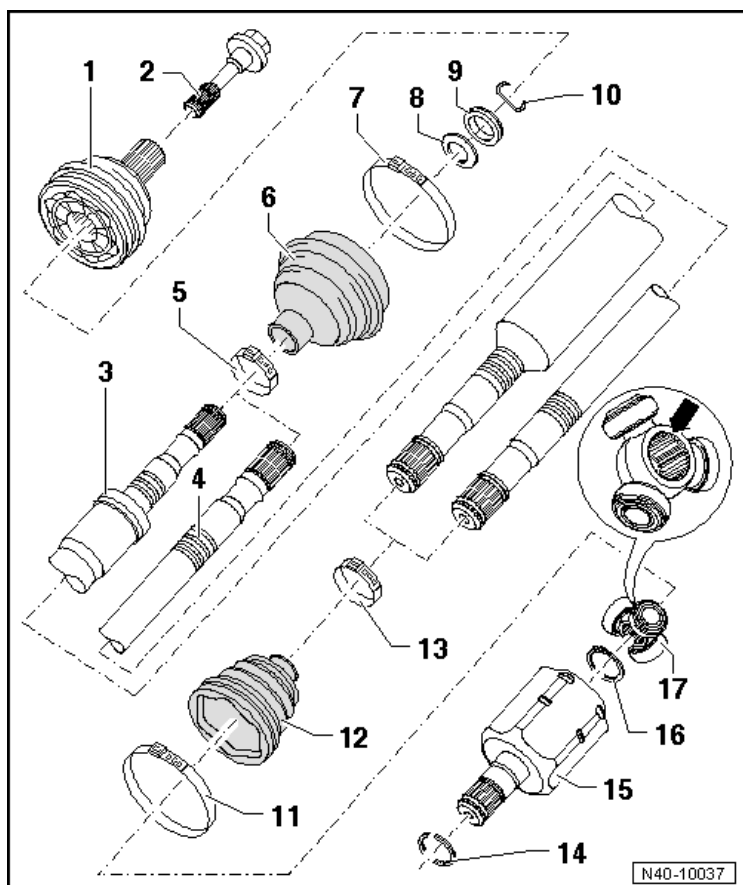
- ☐ Always replace if removed

13 - Locking Plate

14 - Cover

15 - Inner CV Joint

Drive Axle Overview, Triple Roller Joint AAR2600i



1 - Outer CV Joint

2 - Bolt

- ☐ 200 Nm + 180° turn
- ☐ Always replace if removed

3 - Right Drive Axle

4 - Left Drive Axle

5 - Clamp

- ☐ Always replace if removed

6 - CV Boot

7 - Clamp

- ☐ Always replace if removed

8 - Plate Spring

9 - Thrust Ring

10 - Locking Ring

- ☐ Always replace if removed

11 - Clamp

- ☐ Always replace if removed

12 - CV Boot for Triple Roller Joint

13 - Clamp

- ☐ Always replace if removed

14 - Locking Ring

- ☐ Always replace if removed

15 - Joint

16 - Locking Ring

- ☐ Always replace if removed

17 - Triple Roller Star with Rollers

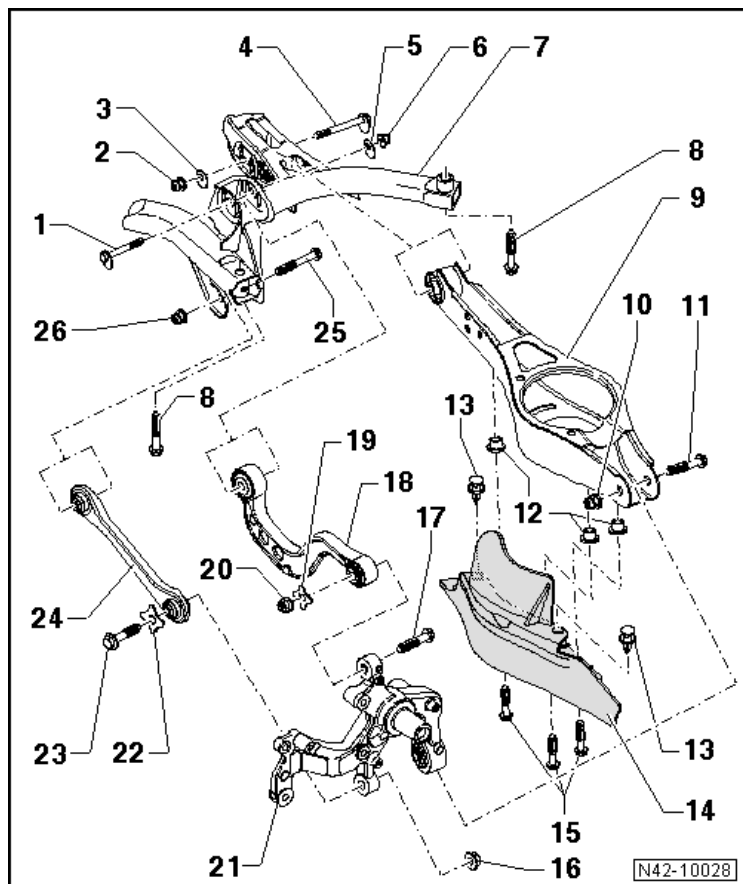
Fastener Tightening Specifications

Component	Fastener size	Nm
Constant Velocity (CV) joint boot clamp	-	25
Drive axle heat shield bolt	-	25

¹⁾ Replace fastener(s).

Rear Suspension

Wheel Bearing Housing and Wheel Bearing Unit Overview



1 - Eccentric Bolt

2 - Nut

☐ 120 Nm

☐ Always replace if removed

3 - Eccentric Washer

4 - Eccentric Bolt

5 - Eccentric Washer

6 - Nut

☐ 120 Nm

☐ Always replace if removed

7 - Axle Beam

8 - Bolt

☐ 90 Nm + 180° turn

☐ Always replace if removed

9 - Lower Transverse Link

10 - Nut

- ☐ 70 Nm + 180° turn
- ☐ Always replace if removed

11 - Bolt

- ☐ Always replace if removed

12 - Threaded Rivet

13 - Expanding Rivet

14 - Stone Chip Protection

15 - Bolt

- ☐ 8 Nm

16 - Nut

- ☐ Always replace if removed

17 - Bolt

- ☐ 130 Nm + 180° turn
- ☐ Always replace if removed

18 - Upper Transverse Link

19 - Washer

20 - Nut

- ☐ Always replace if removed

21 - Wheel Bearing Housing

22 - Washer

23 - Bolt

- ☐ 130 Nm + 180° turn
- ☐ Always replace if removed

24 - Tie Rod

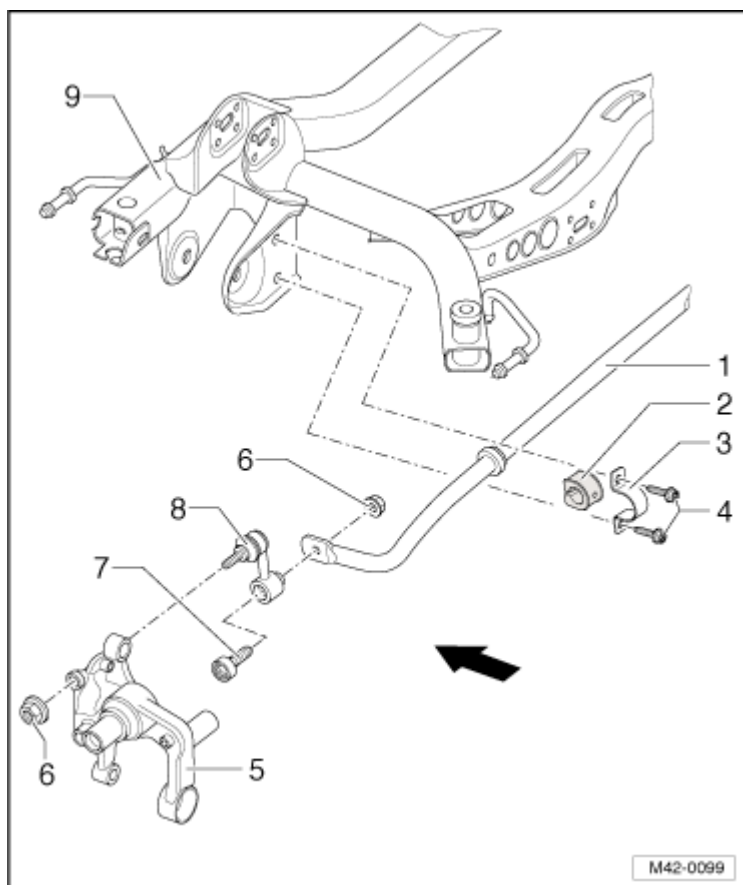
25 - Bolt

- ☐ Always replace if removed

26 - Bolt

- ☐ 70 Nm + 180° turn
- ☐ Always replace if removed

Stabilizer Bar Overview



1 - Stabilizer Bar

2 - Rubber Mount

3 - Clamp

4 - Bolt

☐ 25 Nm + 90° turn

☐ Always replace if removed

5 - Wheel Bearing Housing

6 - Nut

☐ 45 Nm

☐ Always replace if removed

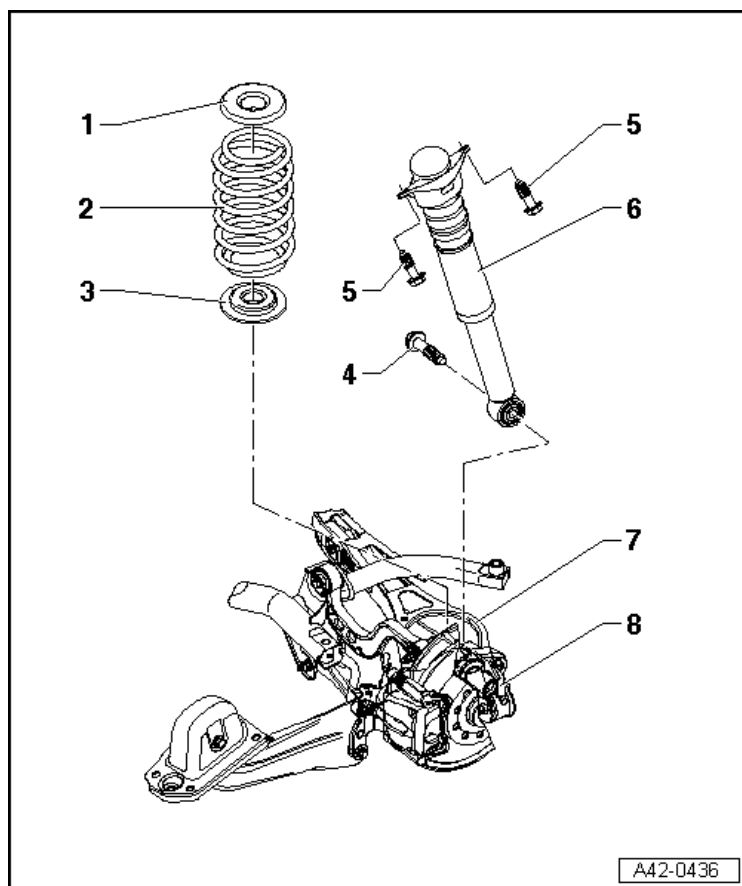
7 - Bolt

☐ Always replace if removed

8 - Coupling Rod

9 - Subframe

Suspension Strut, Shock Absorber and Spring Overview



1 - Upper Spring Support

2 - Coil Spring

3 - Lower Spring Support

4 - Bolt

☐ 180 Nm

5 - Bolt

☐ 50 Nm + 90° turn

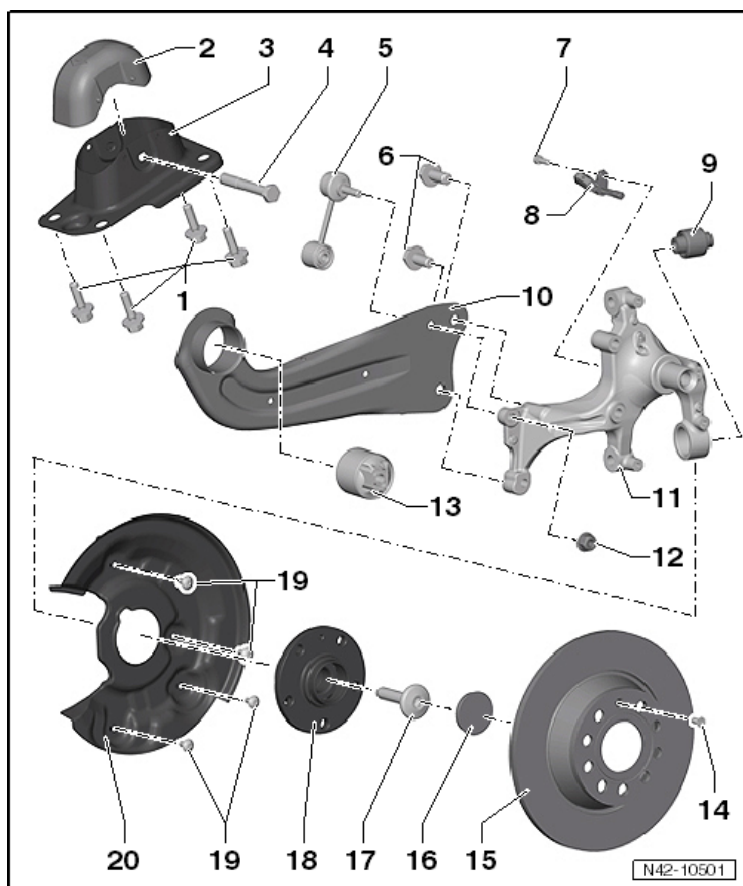
☐ Always replace if removed

6 - Shock Absorbers

7 - Lower Transverse Link

8 - Wheel Bearing Housing

Wheel Bearing Housing and Wheel Bearing Unit Overview



1 - Bolt

- ☐ 50 Nm + 45° turn
- ☐ Always replace if removed

2 - Cover

3 - Bracket

4 - Bolt

- ☐ 90 Nm + 90° turn
- ☐ Always replace if removed

5 - Coupling Rod

6 - Bolt

- ☐ 90 Nm + 90° turn
- ☐ Always replace if removed

7 - Bolt

- ☐ 8 Nm

8 - Right Rear ABS Wheel Speed Sensor -G44-/Left Rear ABS Wheel

Speed Sensor -G46-

9 - Bonded Rubber Bushing

10 - Trailing Link

11 - Wheel Bearing Housing

12 - Nut

- ☐ 45 Nm
- ☐ Always replace if removed

13 - Bonded Rubber Bushing

14 - Bolt

- ☐ 4 Nm

15 - Brake Rotor

16 - Dust Cap

- ☐ Always replace if removed

17 - Bolt

- ☐ 180 Nm + 180° turn
- ☐ Always replace if removed

18 - Wheel Bearing Unit

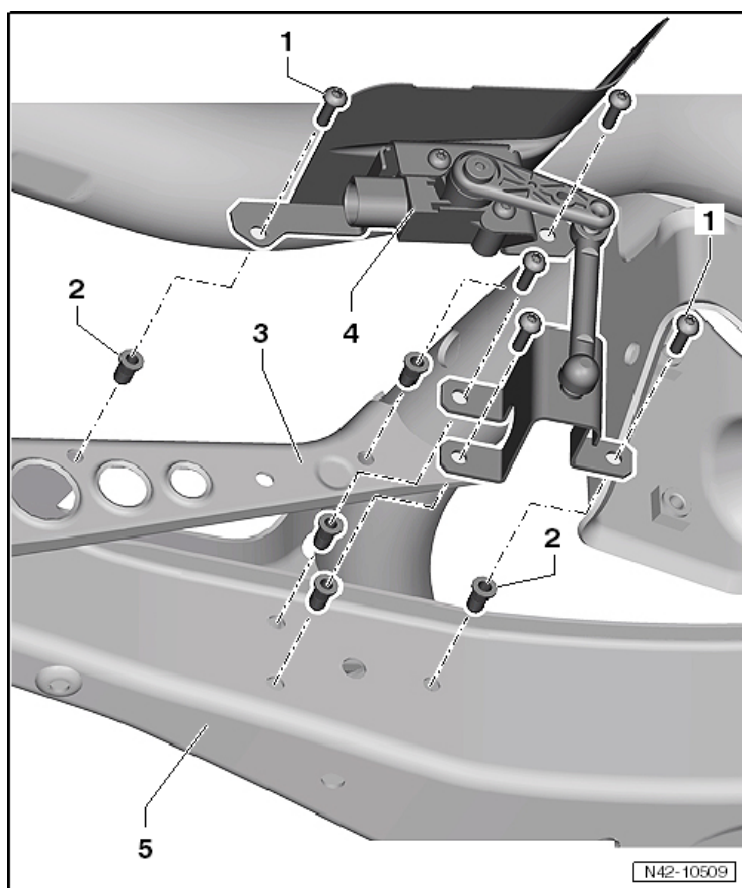
19 - Bolt

- ☐ 12 Nm

20 - Cover Plate

Self-Leveling Suspension

Rear Vehicle Level Sensor Overview



1 - Bolt

- ☐ 5 Nm
- ☐ M5 x 20

2 - Pop Rivet

3 - Subframe

4 - Left Rear Level Control System Sensor -G76-

5 - Lower Transverse Link

Wheels, Tires, Wheel Alignment

Fastener Tightening Specification

Component	Nm
Wheel bolts-to-wheel hub for all vehicles	140

Wheel Alignment Data

Wheel Alignment Specified Values

Specified values valid for all engine versions

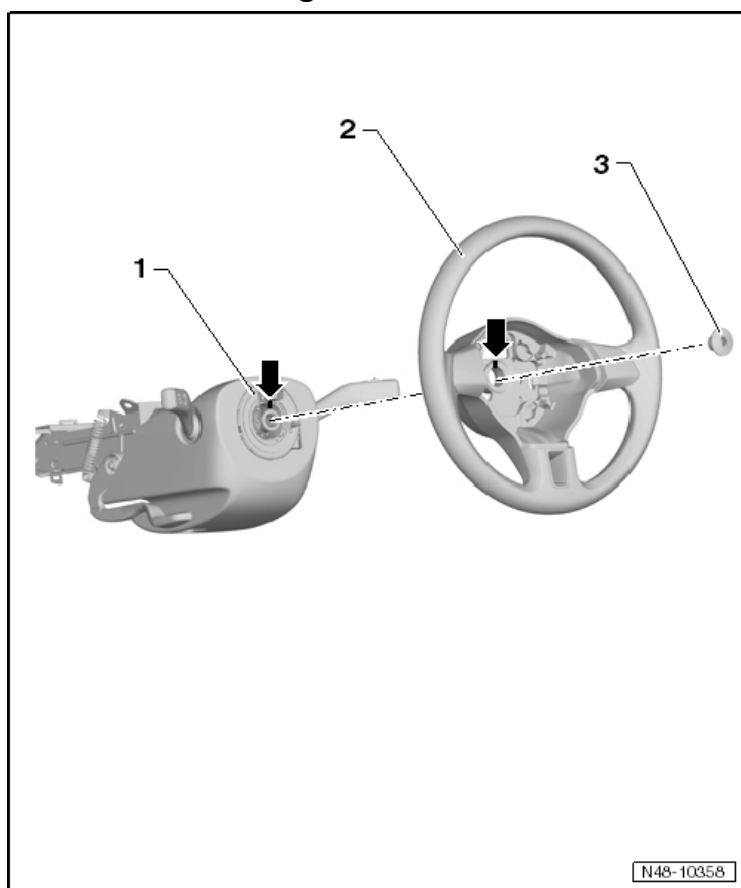
Front suspension	Basic suspension	Comfort suspension
Production Relevant No. (PR. No.)	G02; G11	G05
Total toe (wheels not pressed)	10' ± 10'	10' ± 10'
Camber (wheels in straight ahead position)	-30' ± 30'	-21' ± 30'
Maximum permissible difference between both sides	30'	30'
Toe-out angle ¹⁾ with steering wheel turned 20° to left and right	1°33' ± 20'	1°14' ± 20'
Caster	7° 55' ± 30'	7° 27' ± 30'
Maximum permissible difference between both sides	30'	30'
Standing height (mm)	397 ± 10	407 ± 10

¹⁾ Depending on the manufacturer, the toe out angle difference can also be indicated negatively in the alignment computer.

Rear suspension	Basic suspension	Comfort suspension
Camber	-1° 20' ± 30'	-1° 20' ± 30'
Maximum permissible difference between both sides	30'	30'
Total toe (at prescribed camber)	+10' ± 10'	+10' ± 10'
Maximum permissible deviation from direction of rotation	20'	20'
Standing height (mm)	396 ± 10	406 ± 10

Steering

Steering Wheel Overview



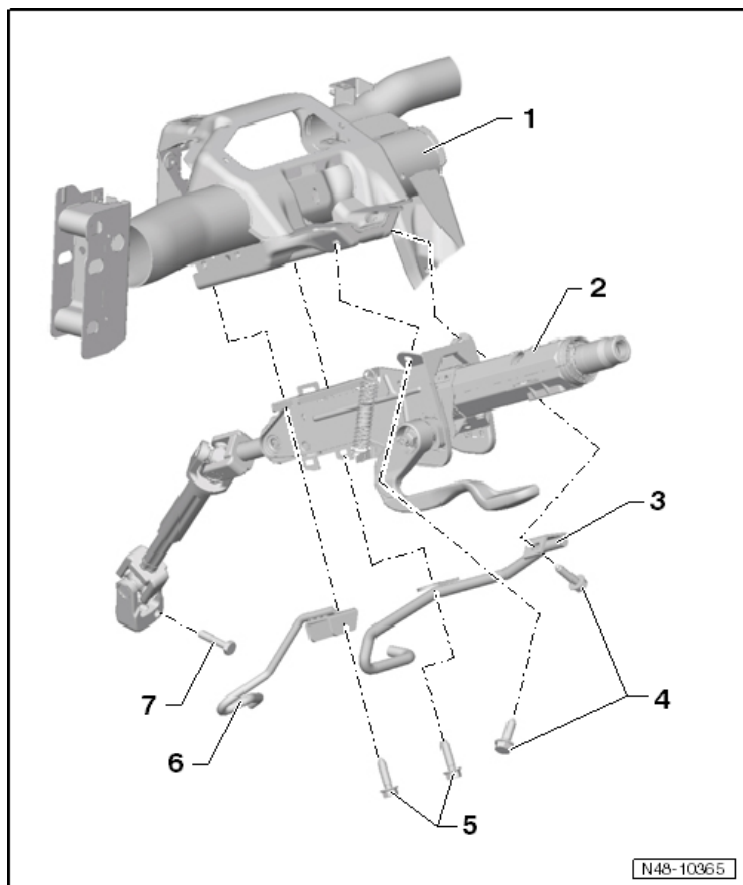
1 - Steering Column

2 - Steering Wheel

3 - Bolt

- ☐ 30 Nm + 90° turn
- ☐ Always replace if removed

Steering Column Overview



1 - Assembly Carrier with Bracket

2 - Steering Column

3 - Brake Pedal Crash Brace

4 - Bolt

☐ 20 Nm

☐ Follow tightening sequence, see Repair Manual

5 - Bolt

☐ 20 Nm

☐ Follow tightening sequence, see Repair Manual

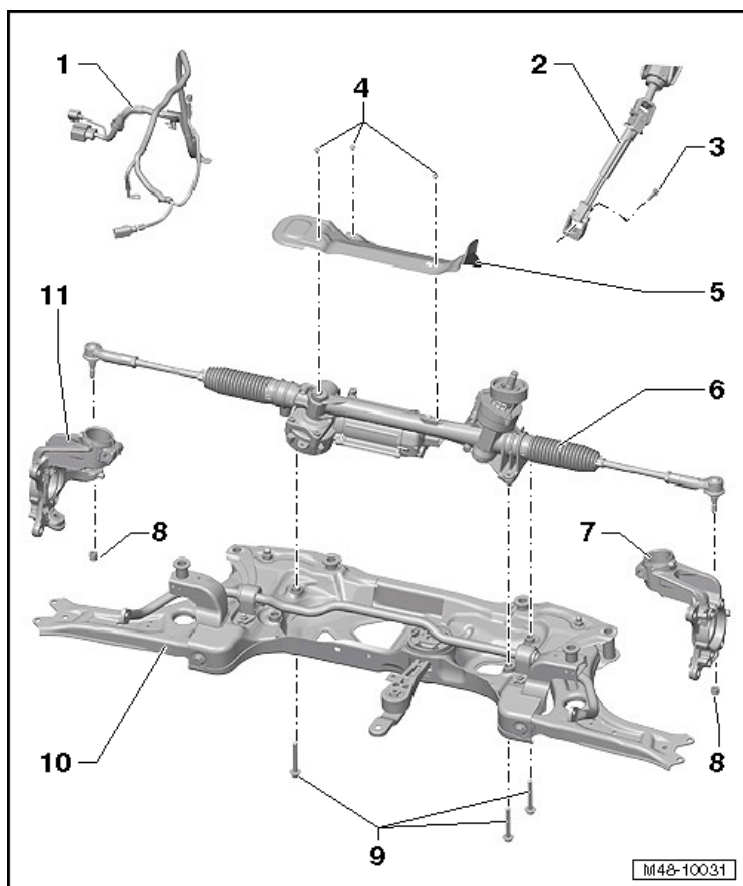
6 - Clutch Pedal Crash Brace

7 - Bolt

☐ 30 Nm

☐ Always replace if removed

Steering Gear Electro-Mechanical Steering Gear with Subframe Overview



1 - Electric Wire

2 - Universal Joint

3 - Bolt

- ☐ 30 Nm
- ☐ M8 x 35
- ☐ Always replace if removed

4 - Bolt

- ☐ 6 Nm

5 - Heat Shield

6 - Power-Assisted Steering Gear

7 - Left Wheel Bearing Housing

8 - Bolt

- ☐ 20 Nm + 90° turn
- ☐ M12 x 1.5
- ☐ Always replace if removed

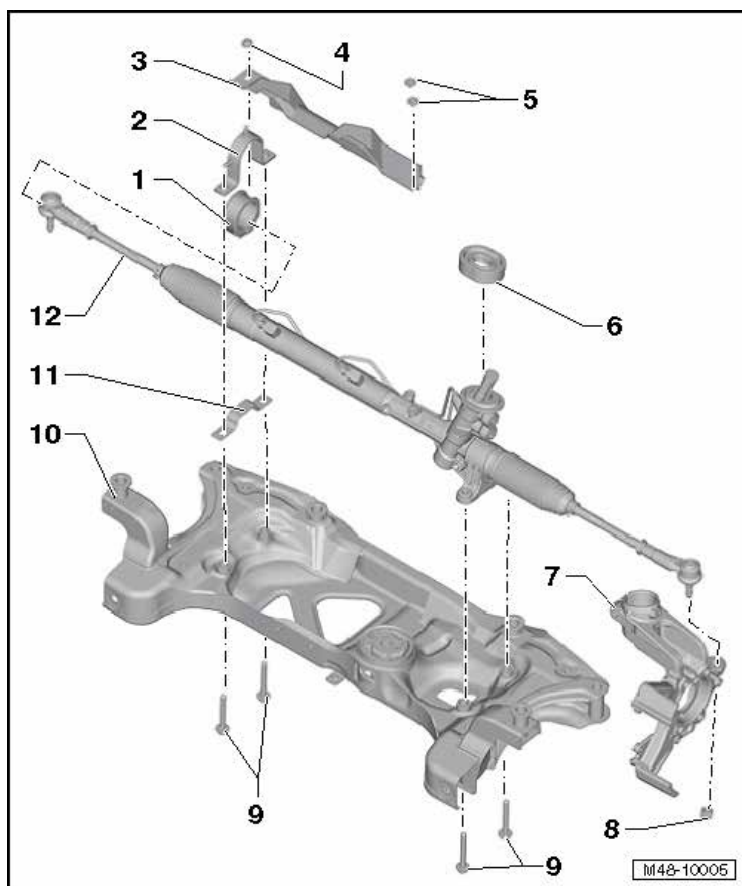
9 - Bolt

- ☐ 50 Nm + 90° turn
- ☐ Always replace if removed
- ☐ Follow tightening sequence, see Repair Manual

10 - Trailing Link

11 - Right Wheel Bearing Housing

Steering Gear Hydraulic Steering Gear with Subframe Overview



1 - Rubber Bushing

2 - Clamp

☐ Always replace if removed

3 - Heat Shield

4 - Nut

☐ 6 Nm

5 - Bolt

☐ 23 Nm

6 - Gasket

7 - Wheel Bearing Housing

8 - Nut

☐ 20 Nm + 90° turn

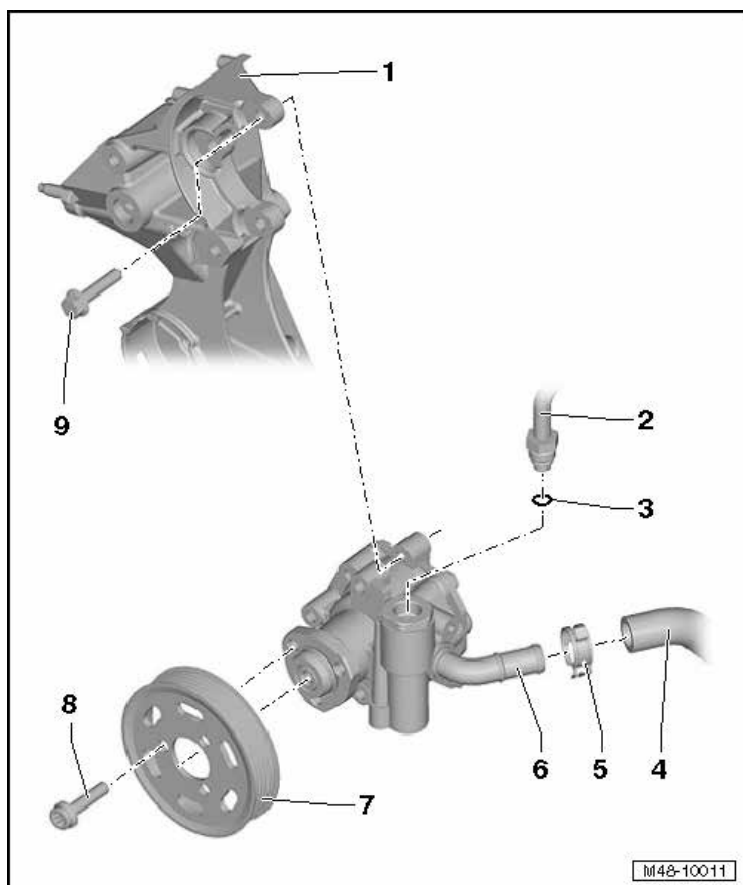
9 - Bolt

☐ 50 Nm + 90° turn

☐ Always replace if removed

- 10 - Subframe**
- 11 - Washer**
- 12 - Steering Gear**

Power Steering Pump



1 - Bracket

2 - Pressure Line

☐ 32 Nm

3 - Seal

☐ Always replace if removed

4 - Intake Hose

5 - Spring Clamp

6 - Power Steering Pump

7 - Belt Pulley

8 - Bolt

☐ 22 Nm

9 - Bolt

☐ 22 Nm

Fastener Tightening Specifications

Component	Fastener size	Nm
Steering gear heat shield bolt		
Pendulum Support to the Transmission ¹⁾	M10 x 35	50 + 90°
	M10 x 75	50 + 90°
Tie rod-to-steering gear	-	100
Tie rod end-to-tie rod nut	-	70
Tie rod end to wheel bearing housing ¹⁾	-	20 + 90°

¹⁾ Replace fastener(s).

BRAKE SYSTEM

General, Technical Data

Brake PR Number, Allocation

NOTE: The following tables show the PR number code key. This is important in order to know the brake caliper/brake disc and brake pad combination.

Front Brakes

Engine version	PR Number	Front wheel brake
2.0 103 kW TDI	1ZA/1ZB/1LV	FN 3 (16")
2.5L 125 kW		
3.6L 206 kW		

Rear Brakes

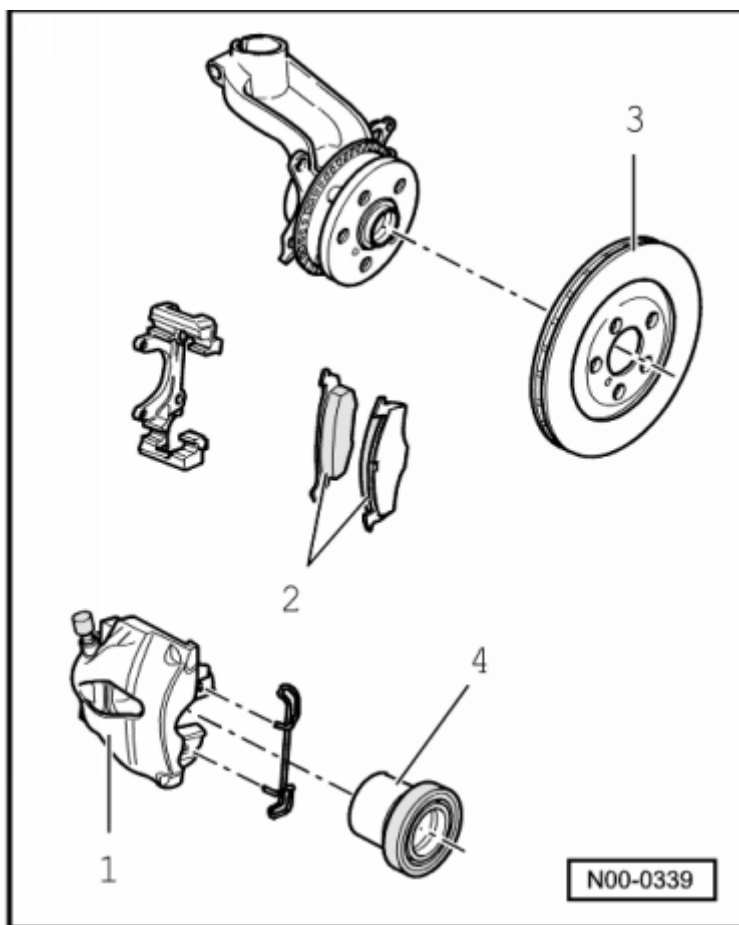
Engine version	PR Number	Rear wheel brake
2.0 103 kW TDI	1KS/1KT	Bosch
2.5L 125 kW		
3.6L 206 kW		

Brake Master Cylinder and Brake Booster

Master brake cylinder ¹⁾	Diameter in mm	22.2
Master brake cylinder ¹⁾	Diameter in mm	23.81
Brake booster (left hand drive)	Diameter in inches	10

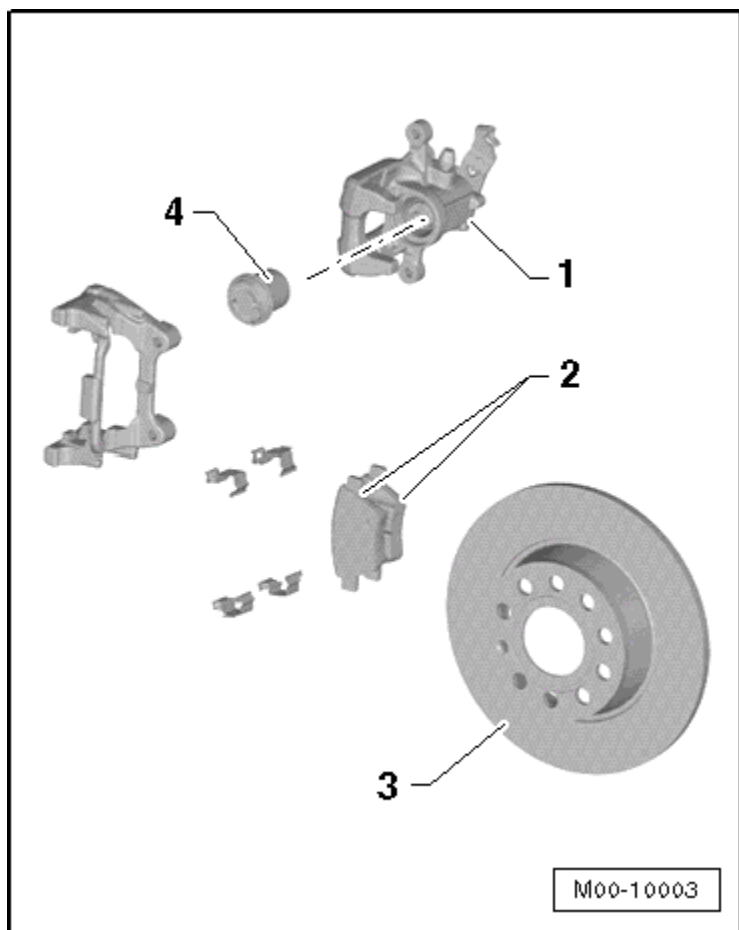
¹⁾ Allocation, refer to the Electronic Parts Catalog (ETKA).

Front Brakes



Item	PR Number		1LV/1ZA/1ZB
1	Brake caliper		FN 3 (16")
2	Brake pad thickness	mm	14
	Brake pad wear limit without back plate	mm	2
3	Brake disc	Diameter in mm	312
	Brake disc thickness	mm	25
	Brake disc wear limit	mm	22
4	Brake caliper piston	Diameter in mm	54

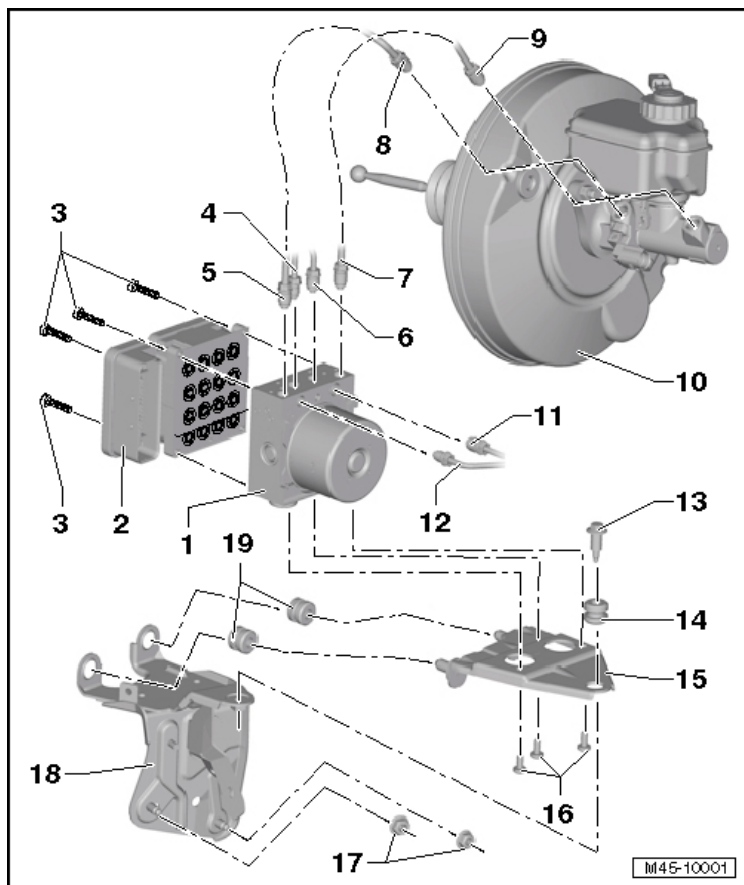
Rear Brakes



Item	PR Number		1KS/1KT
1	Brake caliper		Bosch
2	Brake pad thickness without backing plate	mm	12
3	Brake rotor	Diameter in mm	272
	Brake disc thickness	mm	10
	Brake disc, lateral runout	mm	0.05
4	Brake caliper piston	Diameter in mm	38

Anti-lock Brake System (ABS)

ABS Control Module and ABS Hydraulic Unit Overview



- 1 - ABS Hydraulic Unit -N55-
2 - ABS Control Module (w/EDL) -J104-
3 - Bolt

- ☐
- 2 Nm
- $\pm$
- 0.8 Nm

- #### 4 - Brake Line

- ☐ 14 Nm
- ☐ To left front brake caliper.

- ## 5 - Brake Line

- ☐ 14 Nm
- ☐ Identification: 6.5 mm and tube fitting with M12 x 1 thread.

- ## 6 - Brake Line

- ☐ 14 Nm
- ☐ To right front brake caliper.
- ☐ Identification: 5.25 mm and tube fitting with M12 x 1 thread.

7 - Brake Line

- ☐ 14 Nm
- ☐ Identification: 6.5 mm and tube fitting with M12 x 1 thread.

8 - Brake Line

- ☐ 14 Nm
- ☐ Identification: 6.5 mm and tube fitting with M12 x 1 thread

9 - Brake Line

- ☐ 14 Nm
- ☐ Identification: 6.5 mm and tube fitting with M12 x 1 thread

10 - Brake Booster**11 - Brake Line**

- ☐ 14 Nm
- ☐ To left rear brake caliper/brake cylinder.
- ☐ Identification: Diameter 5.25 mm and tube fitting with M12 x 1 thread.

12 - Brake Line

- ☐ 14 Nm
- ☐ To the right rear brake caliper/brake cylinder.
- ☐ Identification: Diameter 5.25 mm and tube fitting with M10 x 1 thread.

13 - Hex Bolt

- ☐ 8 Nm

14 - Rubber Insulation**15 - Bracket****16 - Bolt**

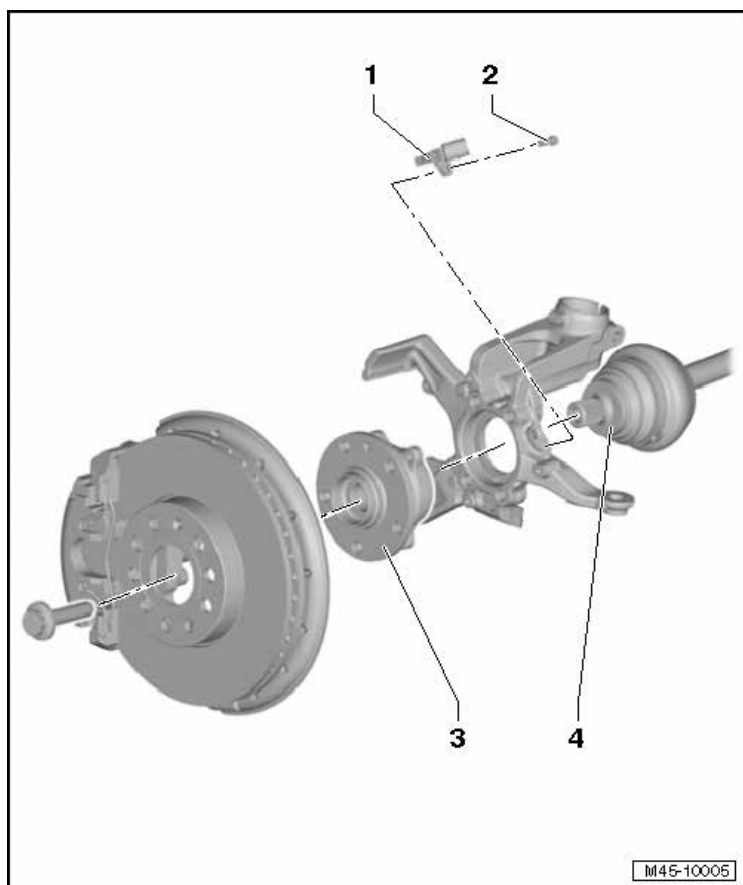
- ☐ 8 Nm

17 - Nut

- ☐ 8 Nm

18 - Bracket**19 - Rubber Insulation**

Front ABS Wheel Speed Sensor Overview



1 - Front ABS Wheel Speed Sensor

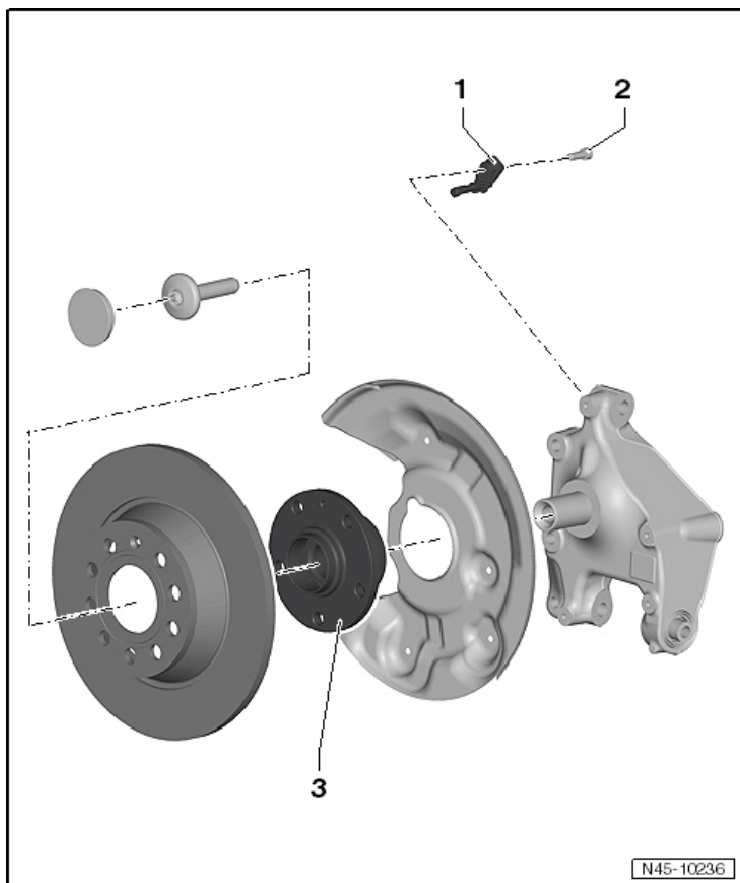
2 - Bolt

□ 8 Nm

3 - Wheel Bearing Unit

4 - Drive Axle

Rear ABS Wheel Speed Sensor Overview



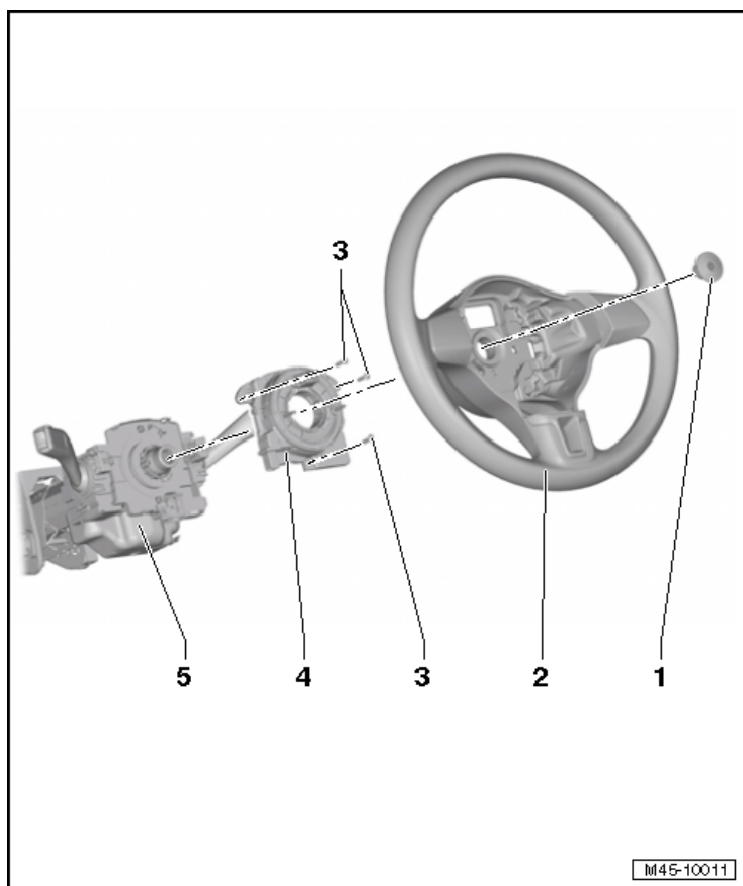
1 - Rear ABS Wheel Speed Sensor

2 - Bolt

□ 8 Nm

3 - Wheel Bearing Unit

Steering Angle Sensor -G85- Overview, Vehicles without Electromechanical Power Steering



1 - Bolt

- ☐ 45 Nm + 90° turn
- ☐ Always replace if removed

2 - Steering Wheel

3 - Bolt

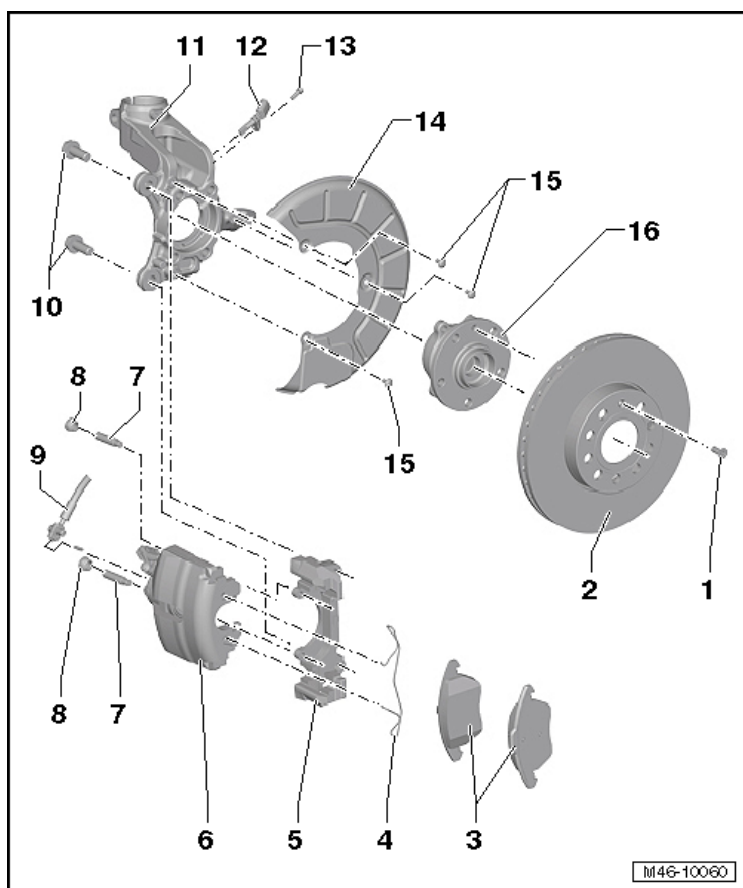
- ☐ 1.5 Nm

4 - Steering Angle Sensor -G85-

5 - Steering Column

Mechanical Components

Front Brakes Overview



1 - Bolt

- ☐ 4 Nm

2 - Brake Disc

3 - Brake Pads

4 - Retaining Spring

5 - Brake Carrier

6 - Brake Caliper

7 - Guide Pins

- ☐ 30 Nm

8 - Cap

9 - Brake Hose with Ring Connection and Banjo Fitting

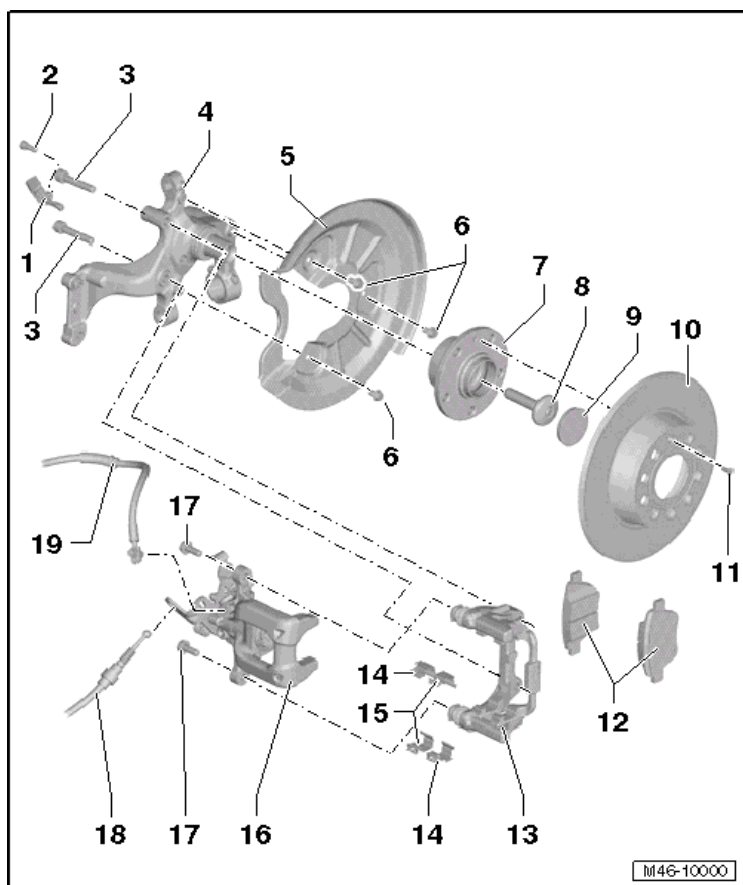
- ☐ 35 Nm

10 - Bolt

- ☐ 200 Nm
- ☐ Clean if using again

- 11 - Wheel Bearing Housing**
- 12 - Front ABS Wheel Speed Sensor**
- 13 - Bolt**
 - ☐ 8 Nm
- 14 - Brake Shield**
- 15 - Bolt**
 - ☐ 12 Nm
- 16 - Wheel Bearing Unit**

Rear Brakes Overview



1 - Rear ABS Wheel Speed Sensor

2 - Bolt

☐ 8 Nm

3 - Bolt

☐ 90 Nm + 90° turn

☐ Always replace if removed

4 - Axle Beam

5 - Brake Cover Plate

6 - Bolt

☐ 12 Nm

☐ M6 x 12

7 - Wheel Bearing Unit

8 - Bolt

☐ Always replace if removed

9 - Cover

10 - Brake Disc

11 - Bolt

- ☐ 12 Nm

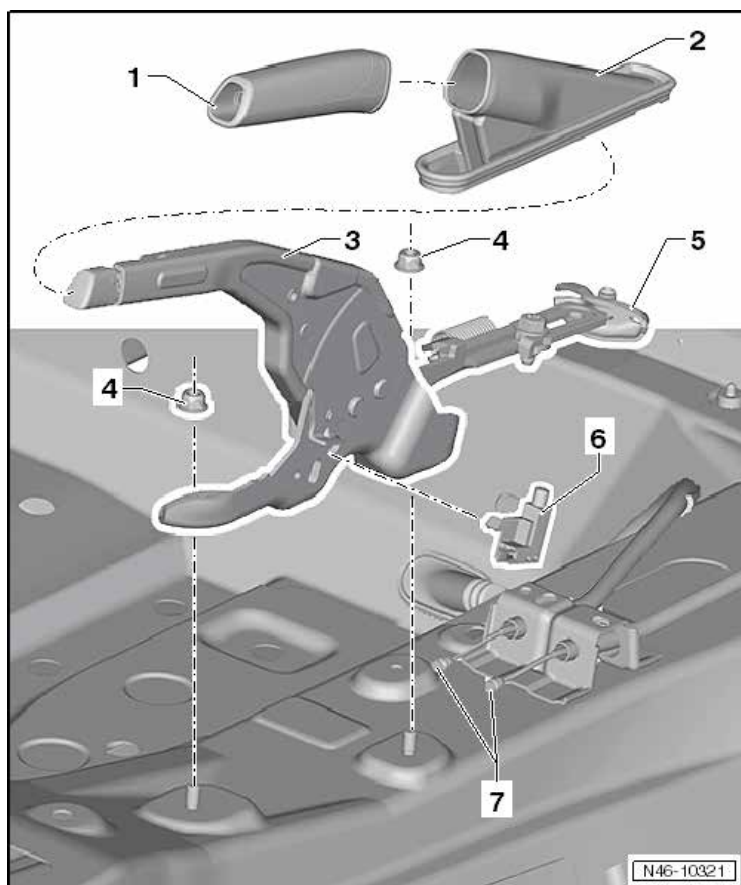
12 - Brake pads**13 - Brake Carrier with Different Guide Pins and Protective Cap****14 - Anti-Rattle Spring****15 - Anti-Rattle Spring****16 - Brake Caliper****17 - Bolt**

- ☐ 35 Nm
- ☐ Always replace if removed.

18 - Brake Cable**19 - Brake Hose**

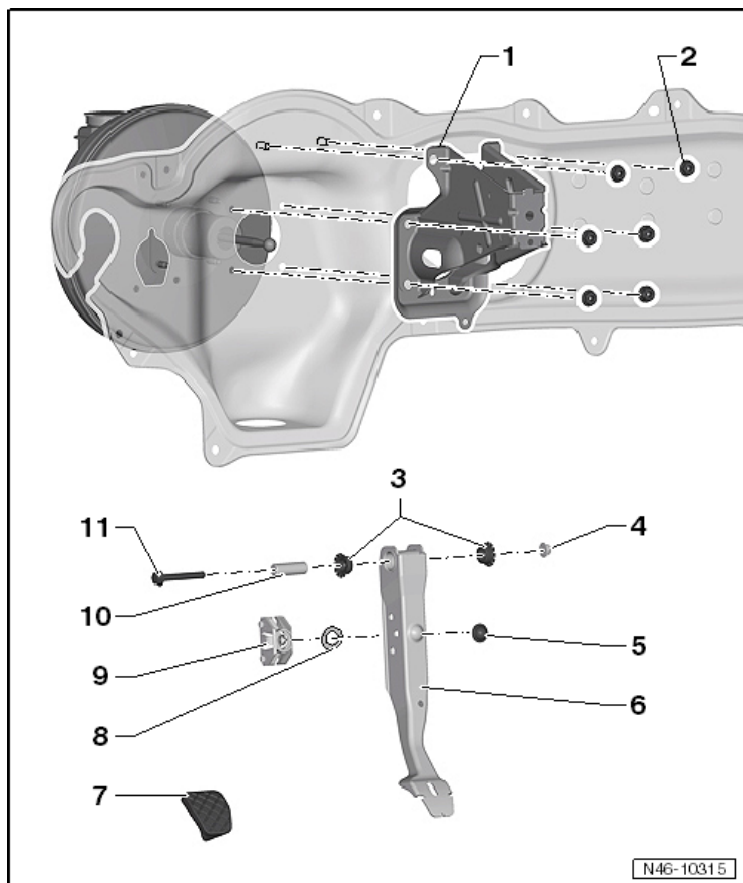
- ☐ 35 Nm
- ☐ With banjo bolt and seals

Parking Brake Overview



- 1 - Parking Brake Lever Handle
- 2 - Trim for Parking Brake Lever
- 3 - Parking Brake Lever
- 4 - Nut
 - 25 Nm
- 5 - Quick Adjustment
- 6 - Parking Brake Switch -F9-
- 7 - Brake Cables

Brake Pedal Overview



- 1 - Mounting Bracket
- 2 - Nut
 - 25 Nm
- 3 - Bushing
- 4 - Nut
 - 25 Nm
- 5 - Buffer Stop
- 6 - Brake Pedal
- 7 - Cover
- 8 - Ball Socket
- 9 - Wheel Hub Support
- 10 - Bolt
- 11 - Pivot Pin

Brake Pedal Overview (cont'd)

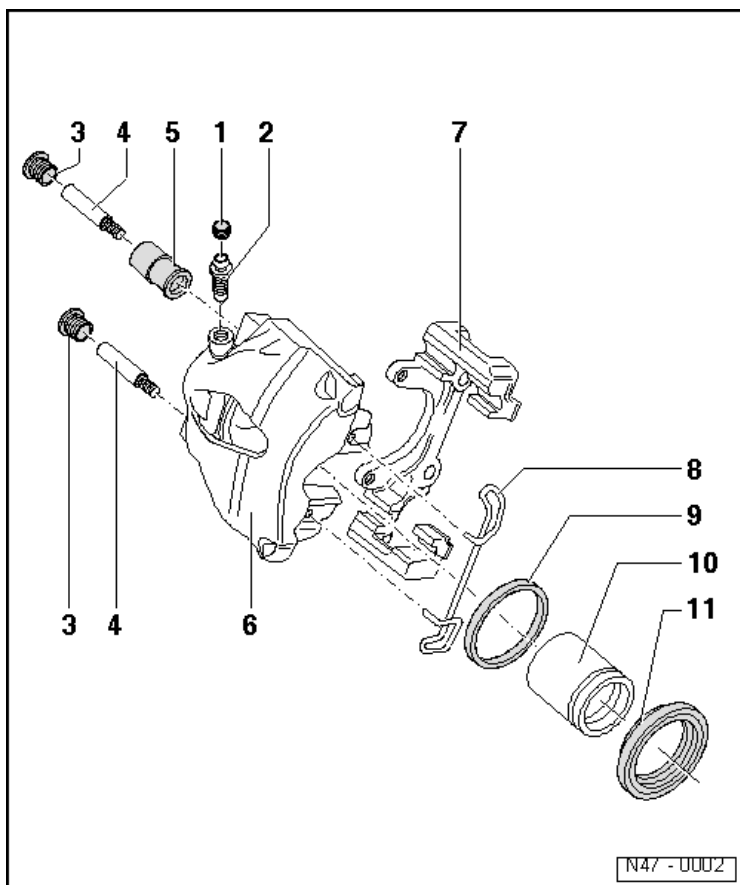
Fastener Tightening Specifications

Component	Nm
Cover plate with stub axle on the twist beam rear suspension bolt	30 plus an additional 90° (¼ turn)
Crash bolster	20
Parking brake lever adjustment bolt	25
Parking brake quick adjustor bolt	25

¹⁾ Replace fastener(s).

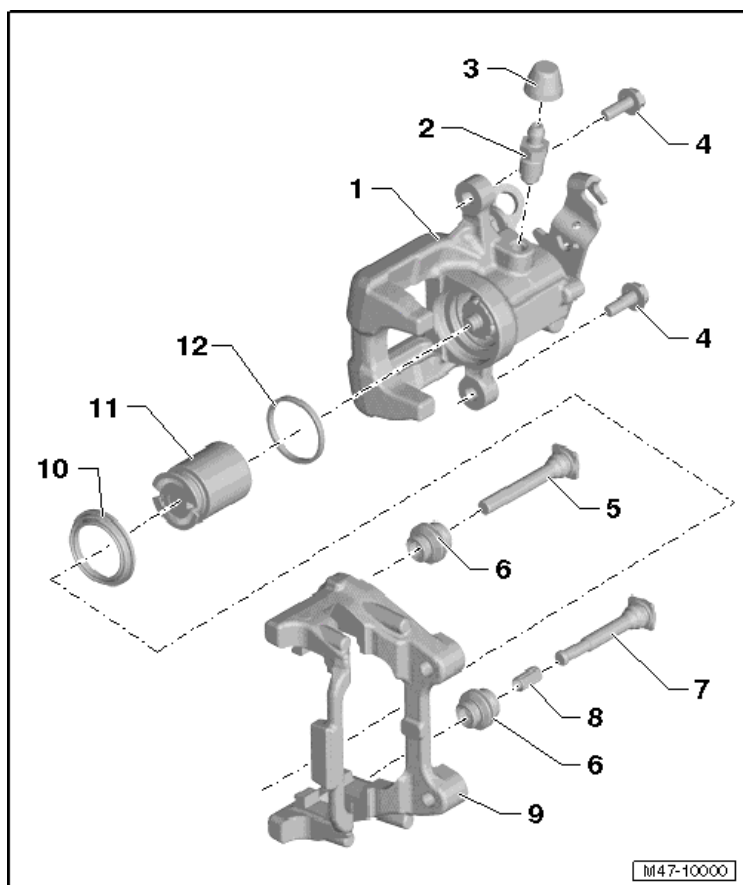
Hydraulic Components

Front Brake Caliper Overview



- 1 - Dust Cap
- 2 - Bleeder Valve
 - 10 Nm
- 3 - Caps
- 4 - Guide Pins
 - 30 Nm
- 5 - Bushing
- 6 - Brake Caliper
- 7 - Brake Carrier
- 8 - Retaining Spring
- 9 - Seal
- 10 - Pistons
- 11 - Cap

Rear Brake Caliper Overview



1 - Brake Caliper Housing with Parking Brake Cable Lever

2 - Bleeder Valve

☐ 10 Nm

3 - Dust Cap

4 - Bolt

☐ 35 Nm

☐ Replace

5 - Upper Guide Pins

6 - Cap

7 - Lower Guide Pins

8 - Guide Grommet

9 - Brake Carrier

10 - Cap

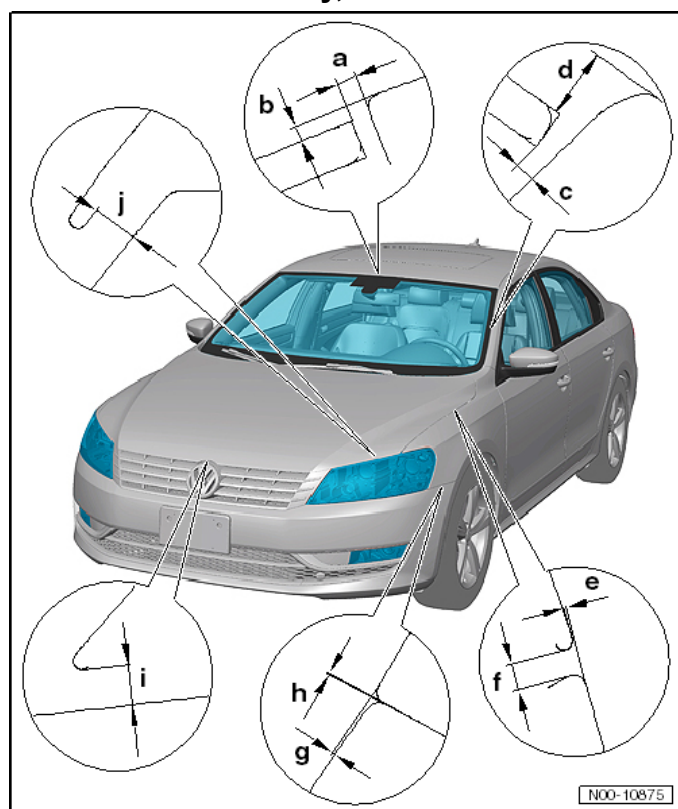
11 - Piston with Automatic Adjustment

12 - Seal

BODY

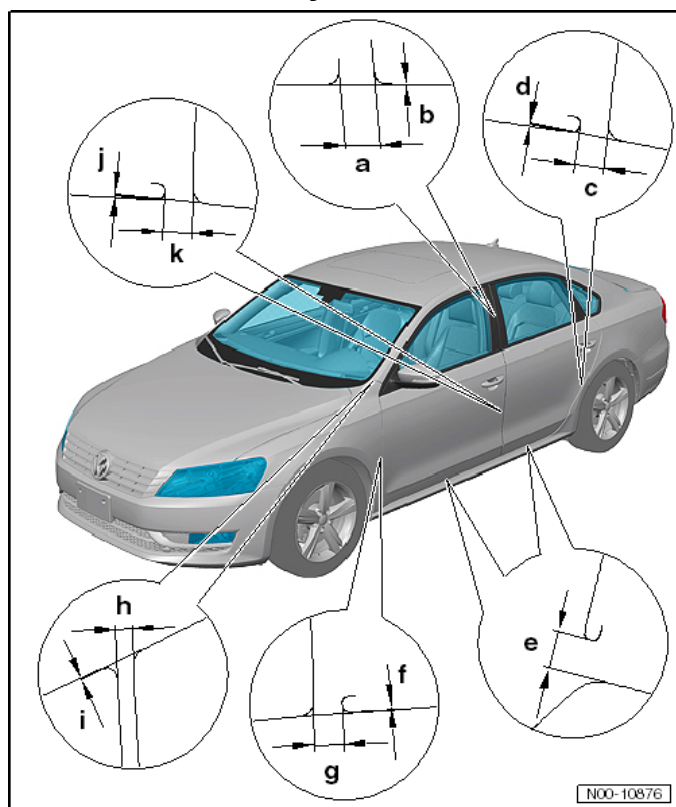
Air Gap Body Dimensions

Body, Front



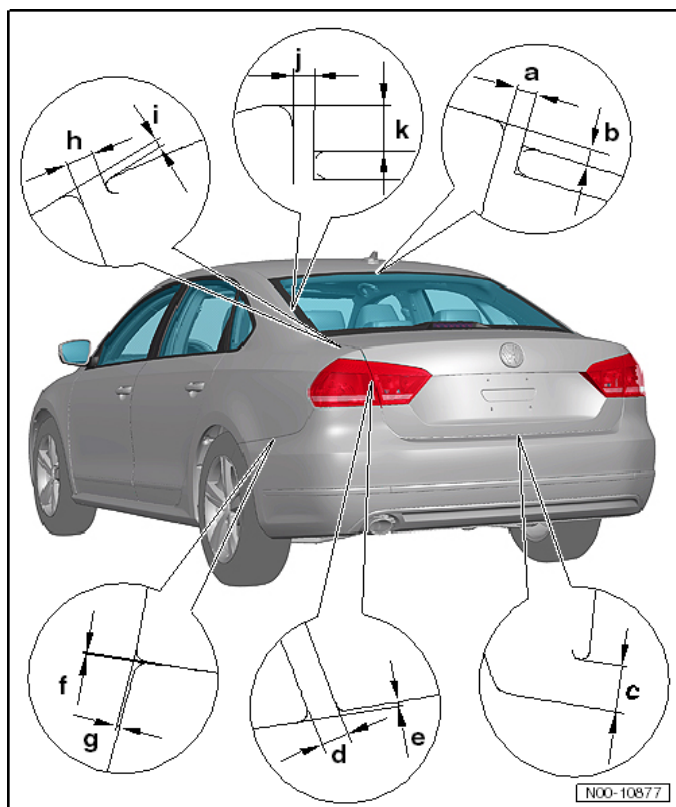
Component	Gap (mm)
a	2.5 ± 0.5
b	2.0 ± 1.0
c	2.5 ± 1.0
d	8.5 ± 0.5
e	0.0 ± 0.5
f	3.0 ± 0.5
g	0.5 ± 0.5
h	0.0 ± 0.5
i	5.0 ± 0.5
j	6.0 ± 0.5

Body, Center



Component	Gap (mm)
a	4.5 ± 1.0
b	$0.0 +1.0$
c	3.5 ± 0.5
d	$0.0 + 1.0$
e	4.5 ± 1.0
f	$0.0 - 1.0$
g	3.5 ± 0.5
h	2.0 ± 1.0
i	0.1 ± 0.5
j	$0.0 + 1.0$
k	3.5 ± 0.5

Body, Rear



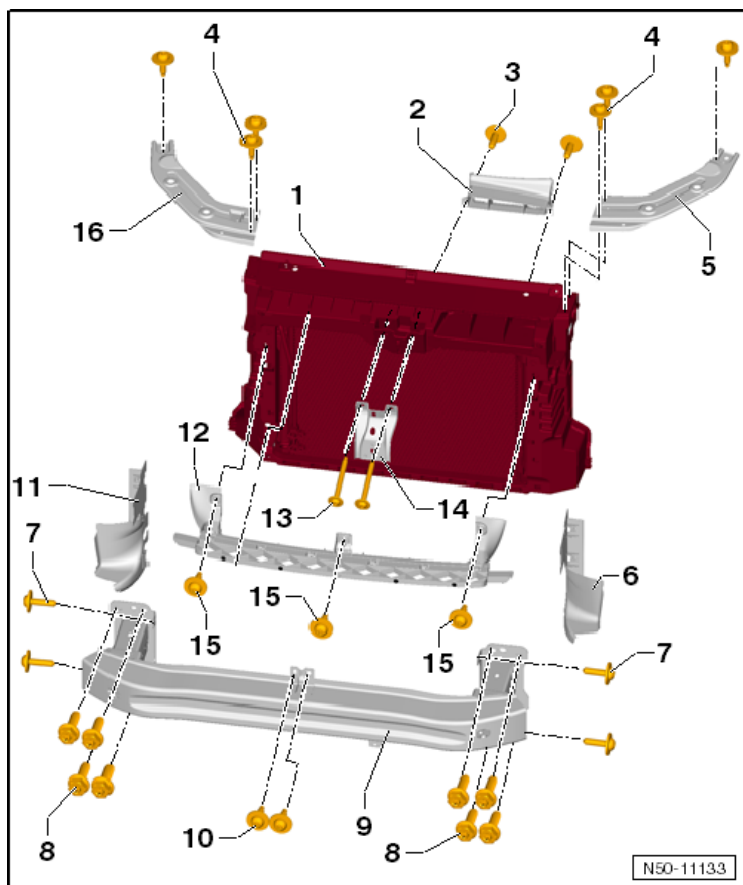
Body

Component	Gap (mm)
a	2.5 ± 0.5
b	2.0 ± 0.5
c	5.5 ± 0.5
d	3.5 ± 1.0
e	0.5 ± 0.5
f	$0.0 + 0.5$
g	3.5 ± 0.5
h	3.5 ± 0.5
i	1.0 ± 0.5
j	2.5 ± 0.5
k	5.5 ± 0.5

Body Exterior

Body Front

Lock Carrier Assembly Overview



1 - Lock Carrier with Attachments

2 - Air Guide Channel

3 - Bolt

☐ $2 \pm 0.3 \text{ Nm}$

4 - Bolt

☐ $8 \pm 0.8 \text{ Nm}$

5 - Carrier Piece

6 - Air Ducts

7 - Bolt

☐ $8 \pm 0.8 \text{ Nm}$

8 - Bolt

☐ $60 \pm 6 \text{ Nm}$

9 - Bumper Carrier

10 - Bolt

☐ $12 \pm 1.2 \text{ Nm}$

11 - Air Ducts

12 - Center Guide

13 - Bolt

☐ 12 Nm

14 - Lock Support

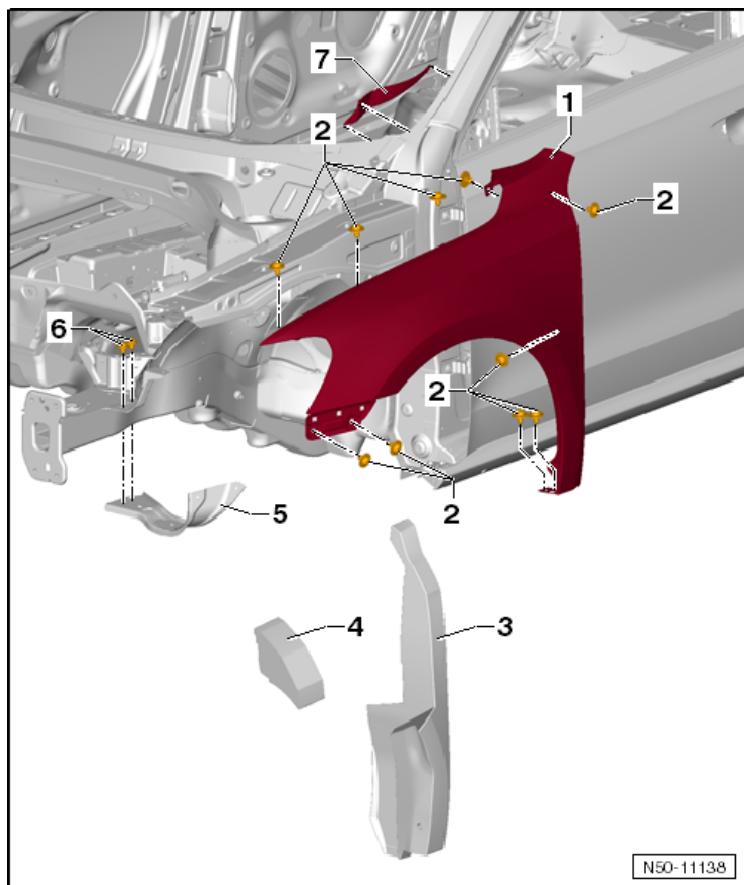
15 - Bolt

☐ $8 \pm 0.8 \text{ Nm}$

16 - Carrier Piece

Body

Fender Assembly Overview



1 - Fender

2 - Bolt

□ 7.5 Nm

3 - Noise Insulation

4 - Fender Noise Insulation

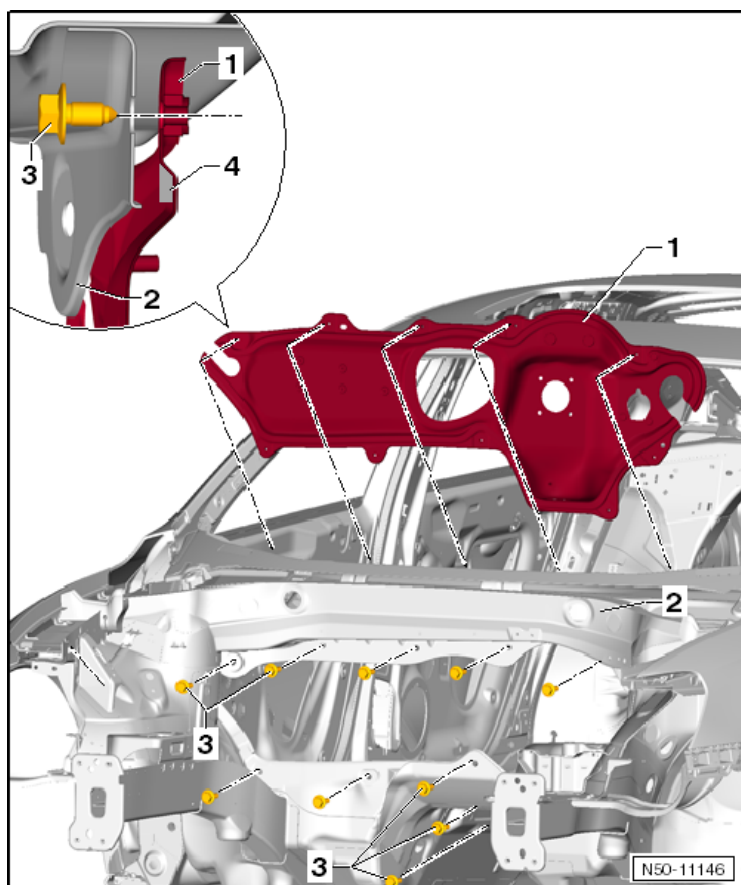
5 - Fender Brace

6 - Bolt

□ 7.5 Nm

7 - Additional Cover for Fender

Bulkhead Assembly Overview



Body

1 - Bulkhead

2 - Body Flange

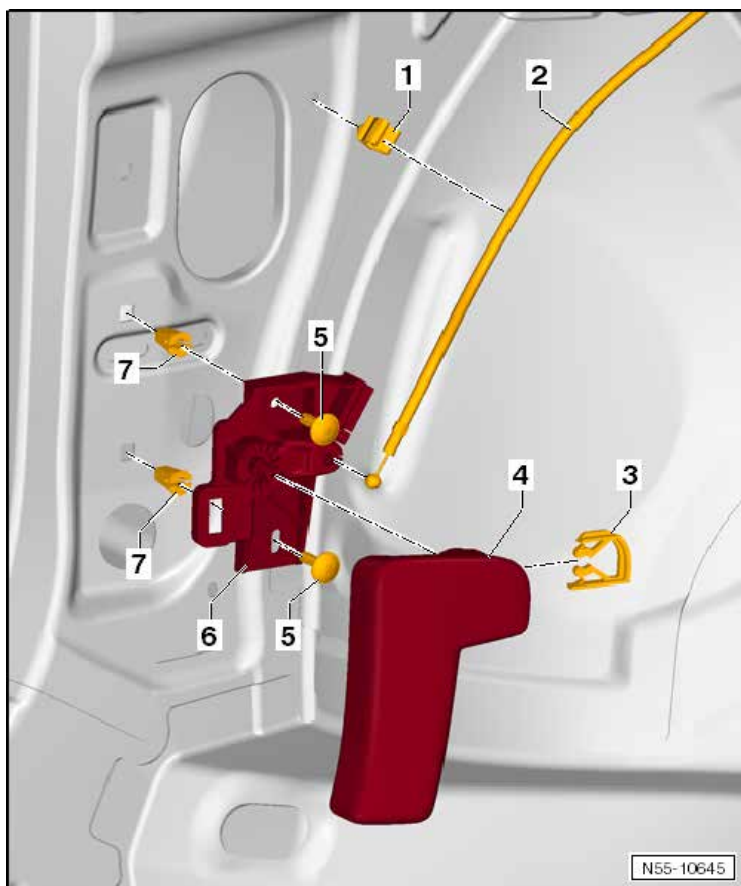
3 - Bolt

□ 25 Nm

4 - PUR Adhesive Sealant

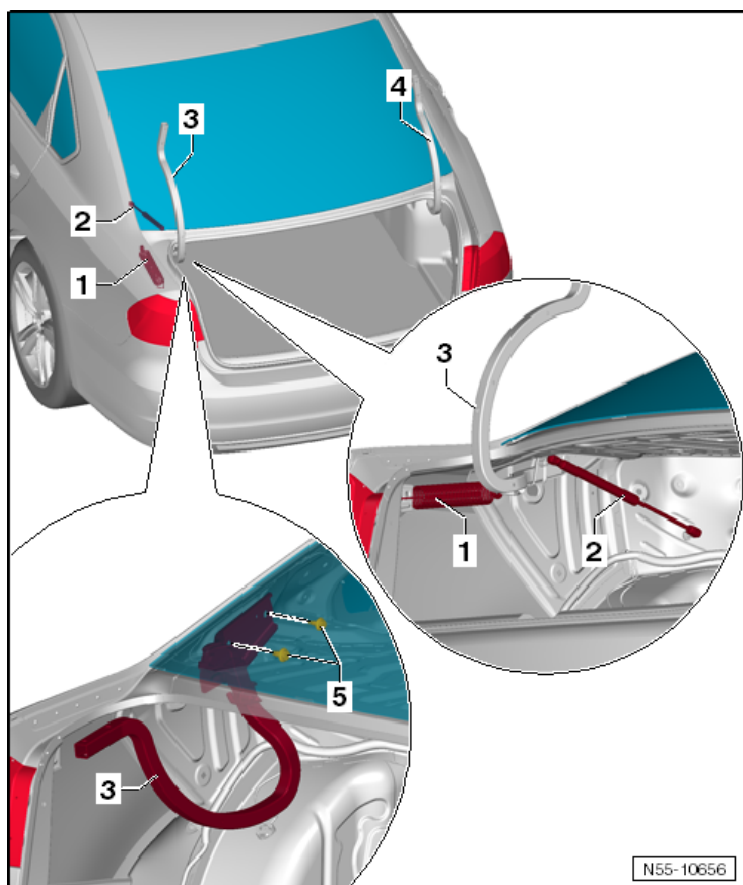
Hood, Lids

Hood Release Lever and Bracket Assembly Overview



- 1 - Bracket
- 2 - Cable
- 3 - Clips
- 4 - Hood Release Lever
- 5 - Bolt
 - 1.5 Nm
- 6 - Bracket
- 7 - Expanding Nut

Rear Lid Hinge Assembly Overview

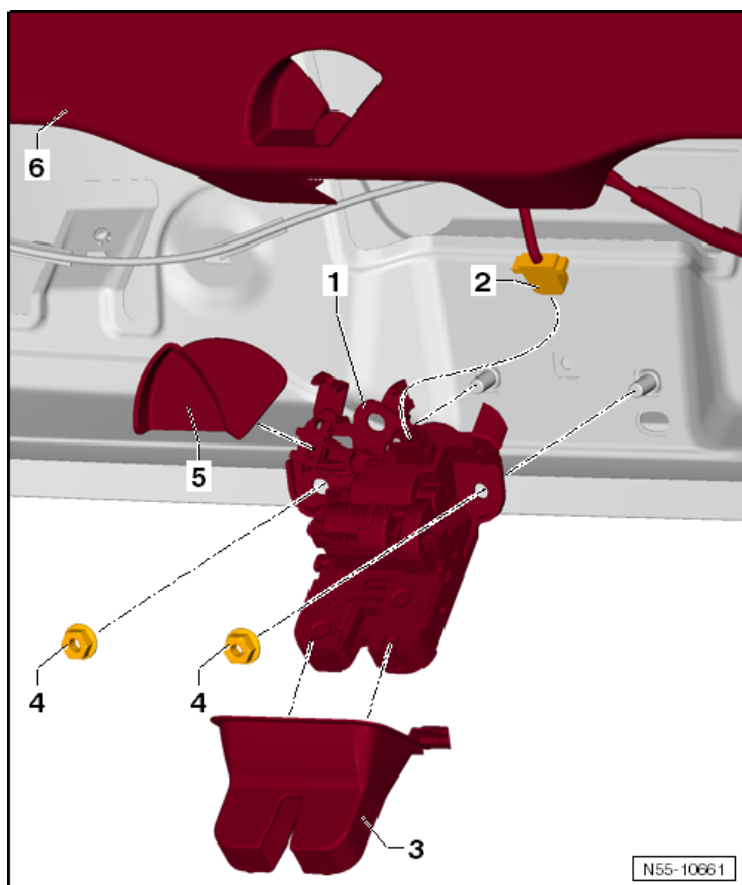


Body

- 1 - Pull-Spring
- 2 - Gas Strut
- 3 - Left Hinge
- 4 - Right Hinge
- 5 - Bolt

□ 22 Nm

Rear Lid Latch Assembly Overview



1 - Rear Lid Latch

2 - Connector

3 - Lock Cover

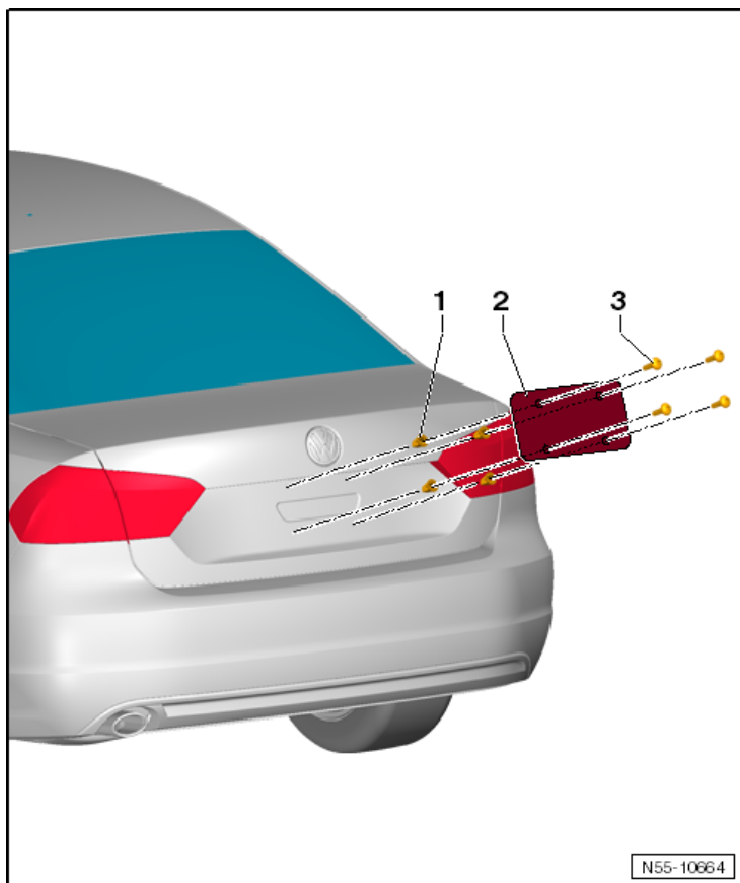
4 - Nut

□ 12 Nm

5 - Emergency Release

6 - Rear Lid Trim

License Plate Holder Assembly Overview



Body

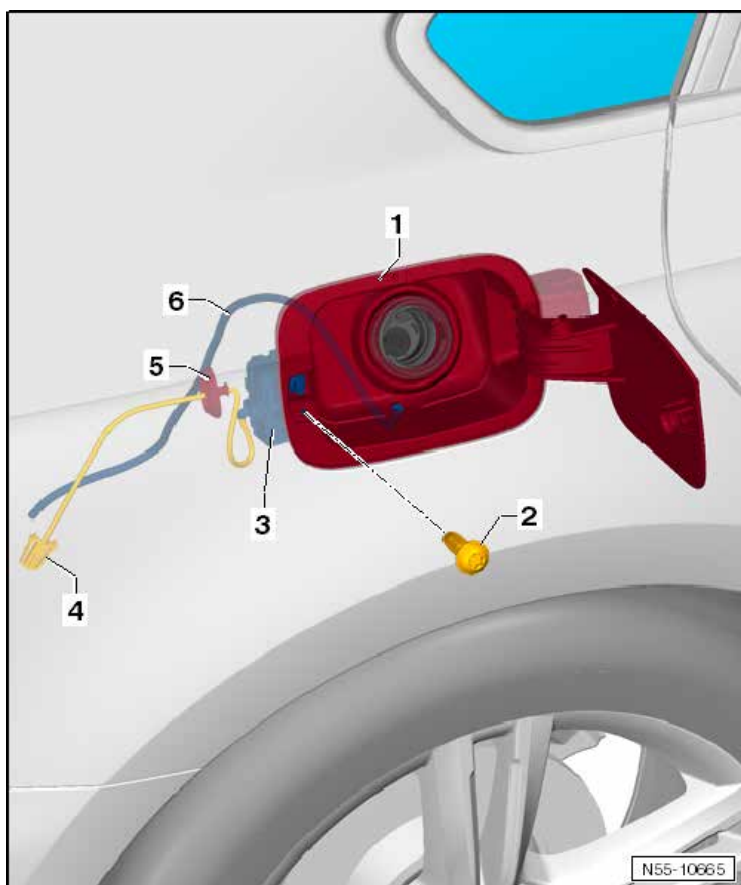
1 - Internally Threaded Pop Rivet

2 - License Plate Holder

3 - Bolt

□ 4 Nm

Fuel Filler Door Unit Assembly Overview



1 - Fuel Filler Door Unit

2 - Bolt

□ 1.5 Nm

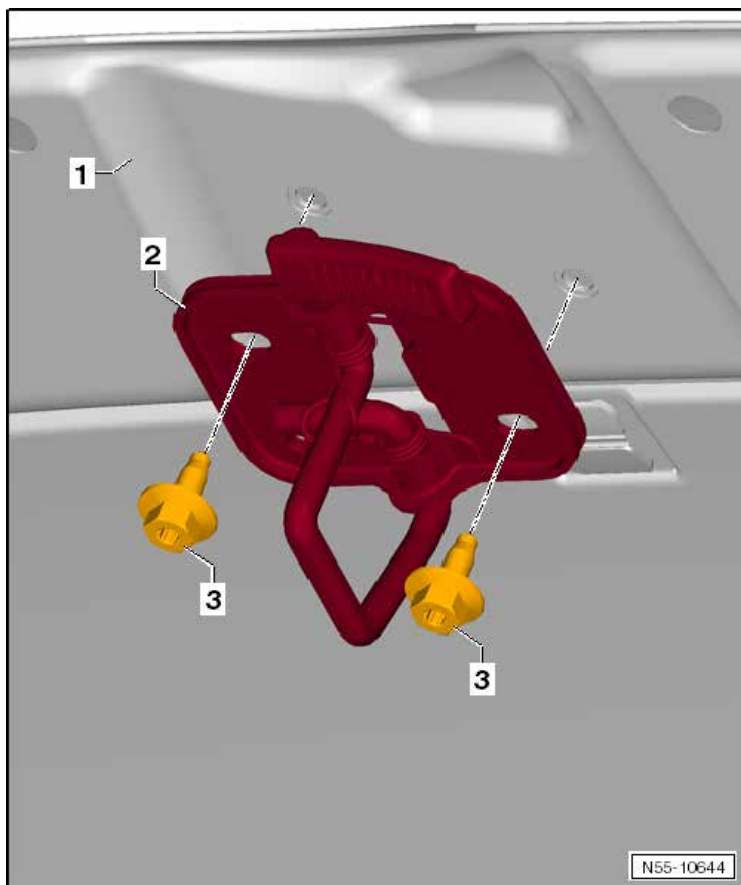
3 - Fuel Tank Lid Unlock Motor -V155-

4 - Connector

5 - Grommet

6 - Water Drain Hose

Hood Striker Pin Assembly Overview

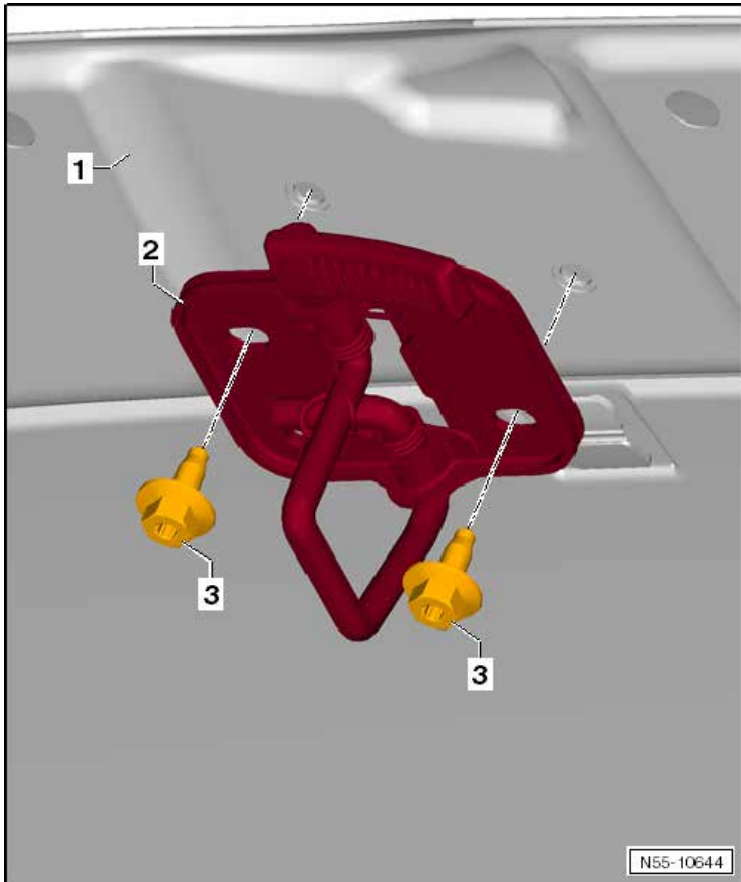


Body

- 1 - Hood
- 2 - Hood Striker Pin
- 3 - Bolt

□ 18 Nm

Hood Hinges



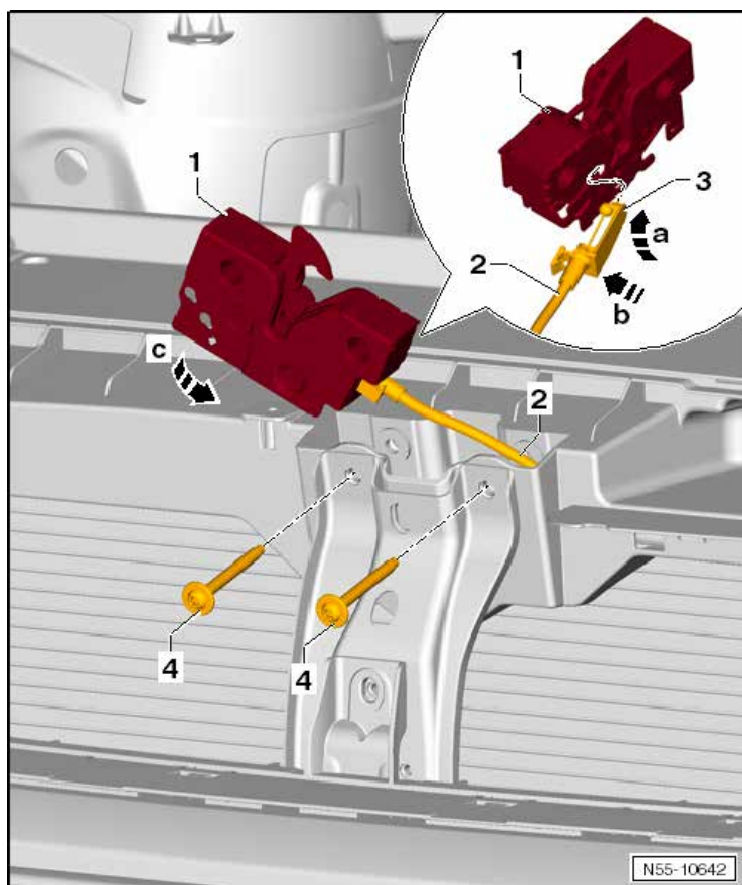
1 - Hood

2 - Hinge

3 - Bolt

□ 22 Nm

Hood Latch



Body

1 - Hood Latch

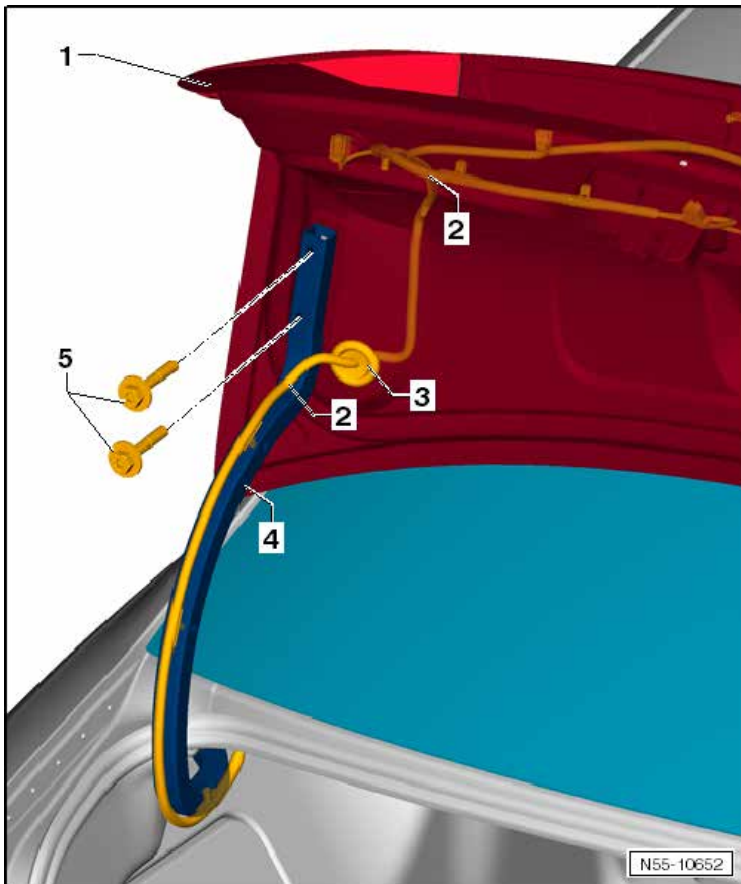
2 - Cable

3 - Retainer

4 - Bolt

□ 12 Nm

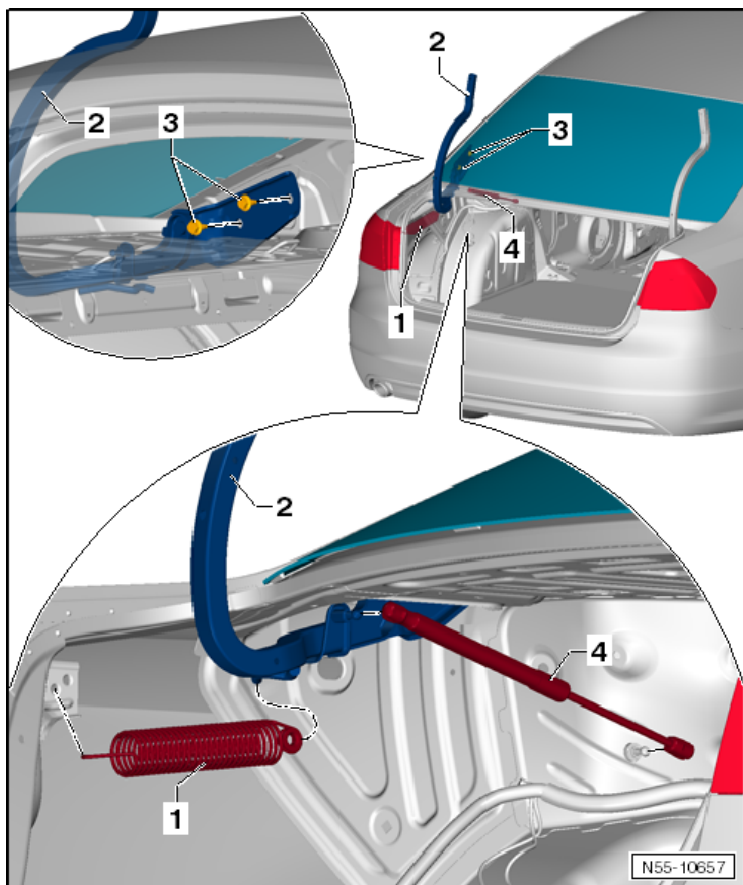
Rear Lid



- 1 - Rear Lid
- 2 - Electric Wires
- 3 - Grommet
- 4 - Left and Right Hinges
- 5 - Bolt

☐ 12 Nm

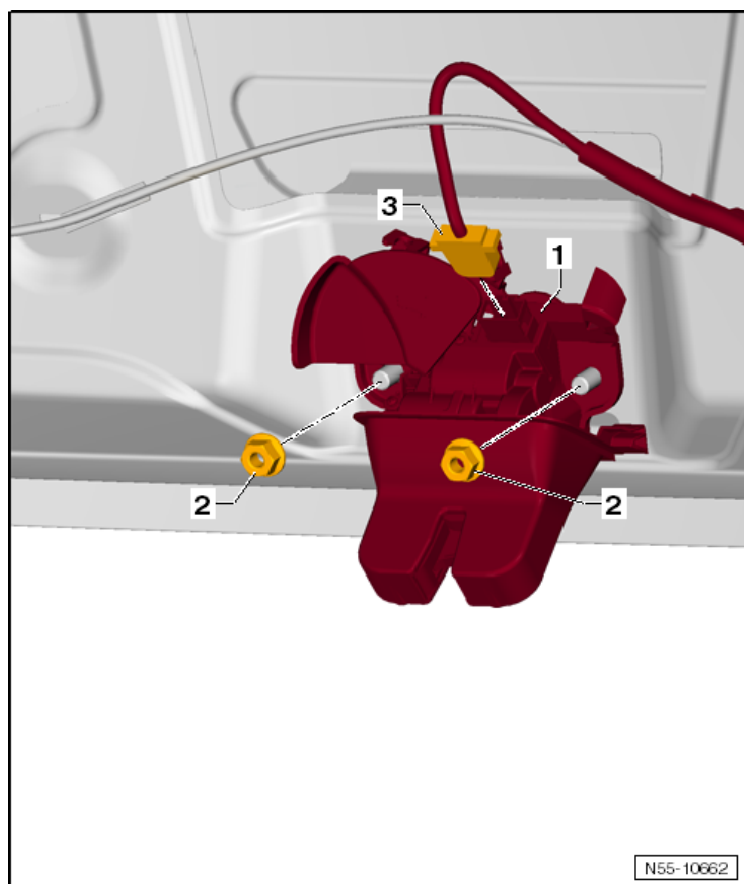
Rear Lid Hinges



Body

- 1 - Tension Spring
- 2 - Hinge
- 3 - Bolt
 - 22 Nm
- 4 - Gas Filled Strut

Rear Lid Latch



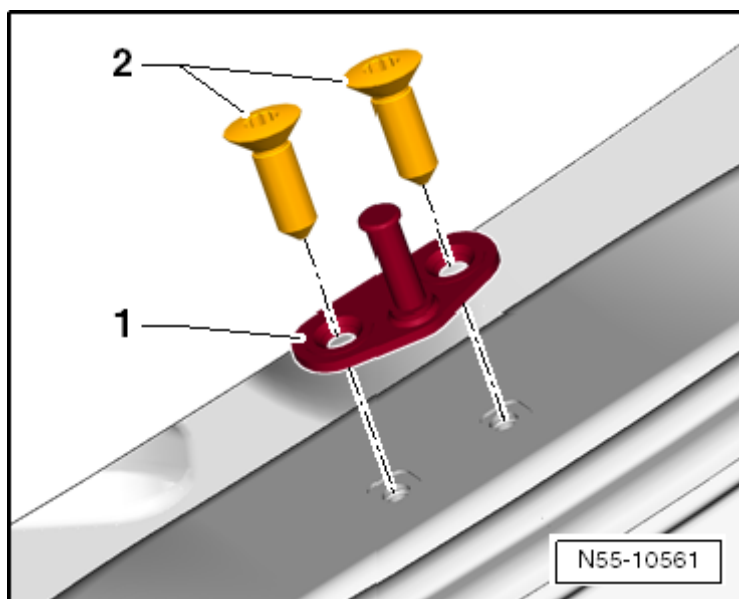
1 - Rear Lid Latch

2 - Bolt

□ 12 Nm

3 - Connector

Rear Lid Latch Striker



Body

1 - Rear Lid Latch Striker

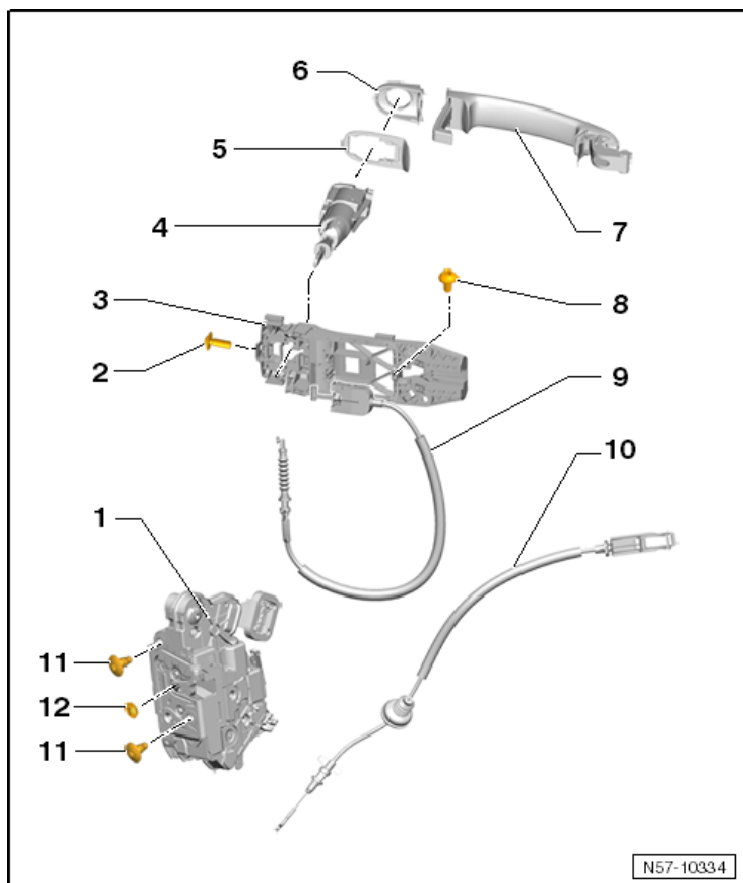
2 - Bolt

□ 18 Nm

- 14 - Lock Cylinder**
- 15 - Backing**
- 16 - Cover**
- 17 - Door Handle**

Body

Door Handle and Door Lock Assembly Overview



1 - Door Lock

2 - Bolt

□ 3 ± 0.5 Nm

3 - Bracket

4 - Lock Cylinder

5 - Backing

6 - Cover

7 - Door Handle

8 - Bolt

□ 1.5 Nm

9 - Cable

10 - Cable

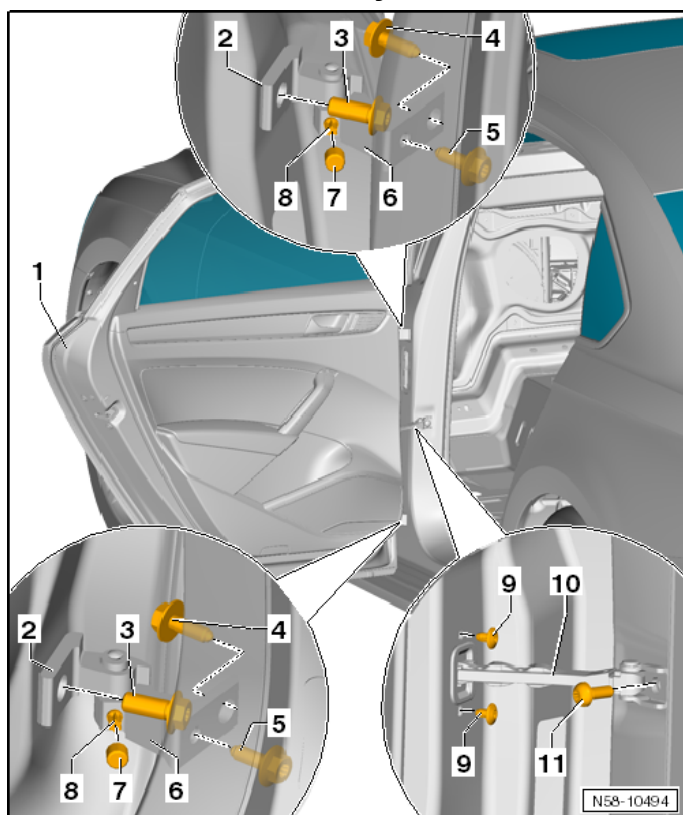
11 - Bolt

□ 18 Nm

12 - Cover

Rear Doors

Door Assembly Overview



1 - Rear Door

2 - Door Hinge

3 - Bolt

☐ 20 Nm + 90° turn

4 - Bolt

☐ 20 Nm + 90° turn

5 - Bolt

☐ 20 Nm + 90° turn

6 - Door Hinge

7 - Cover

8 - Bolt

☐ 23 Nm

9 - Bolt

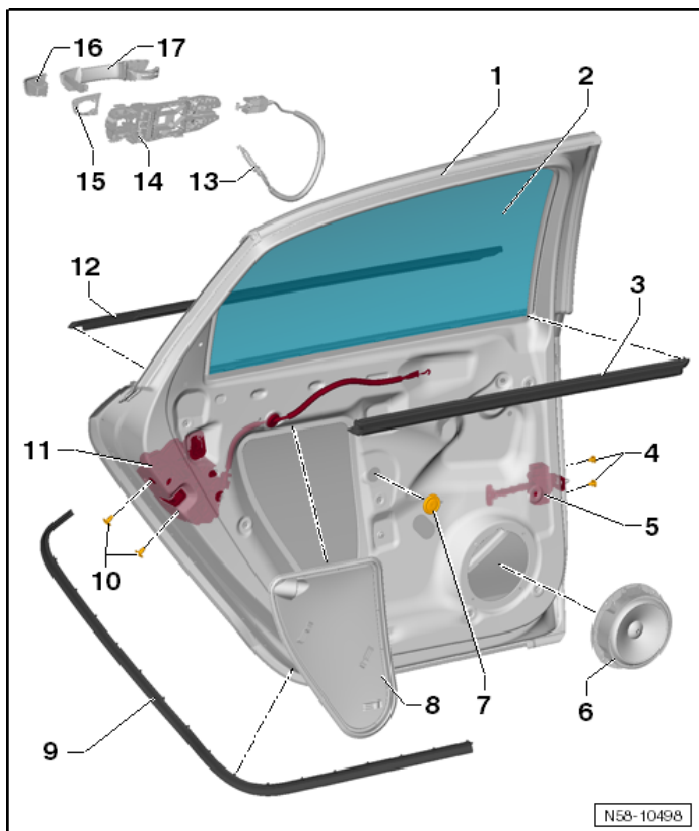
☐ 9 Nm

10 - Door Strap

11 - Bolt

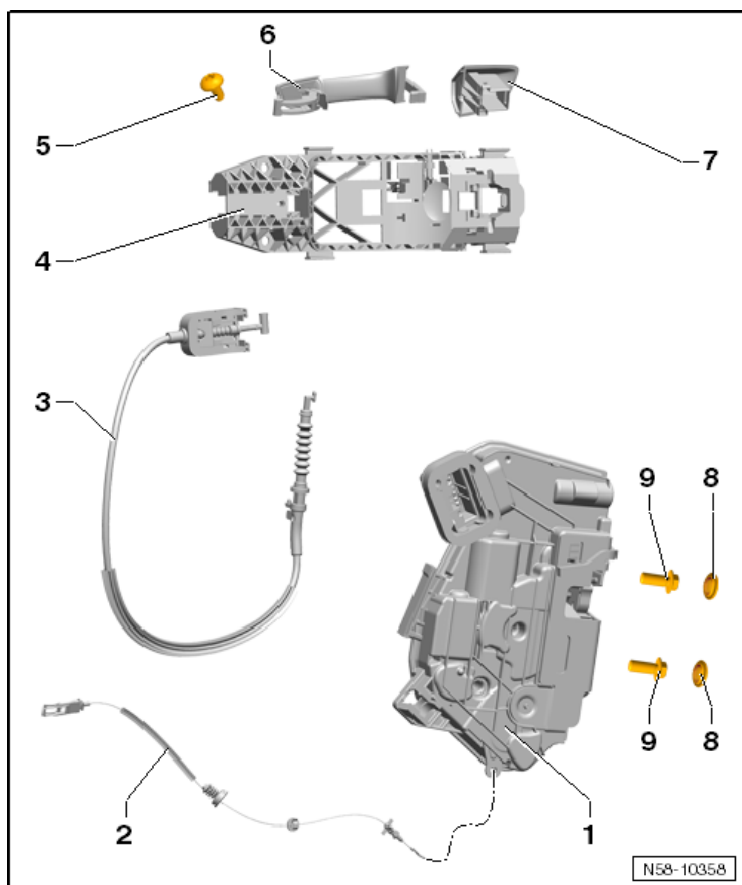
☐ 30 Nm

Rear Door Components Assembly Overview



- 1 - Rear Door
- 2 - Door Window
- 3 - Inner Window Recess Seal
- 4 - Bolt
 - ☐ 9 Nm
- 5 - Door Strap
- 6 - Speaker
- 7 - Cover
- 8 - Cover
- 9 - Outer Door Seal
- 10 - Bolt
 - ☐ 18 Nm
- 11 - Door Lock
- 12 - Outer Window Shaft Seal
- 13 - Cable
- 14 - Bracket
- 15 - Backing
- 16 - Cover
- 17 - Door Handle

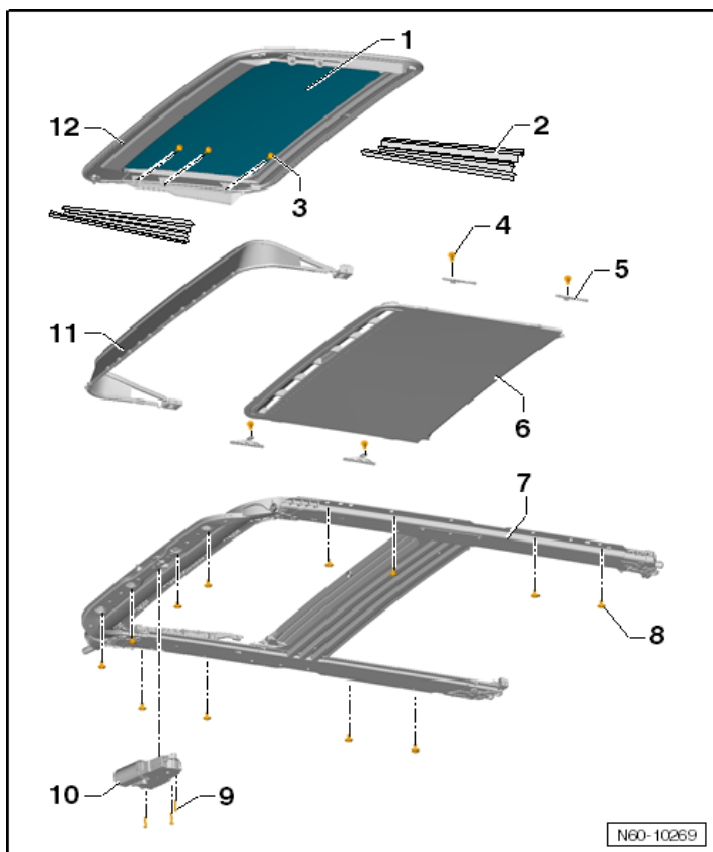
Door Handle and Door Lock Assembly Overview



- 1 - Door Lock**
- 2 - Cable**
- 3 - Cable**
- 4 - Bracket**
- 5 - Bolt**
 - ☐ 1 Nm
- 6 - Door Handle**
- 7 - Cover**
- 8 - Cover**
- 9 - Bolt**
 - ☐ 18 Nm

Sunroof

Sunroof Assembly Overview



1 - Sunroof Glass Panel (One-Piece Safety Glass)

2 - Boots

3 - Bolt

☐ 7 Nm

4 - Bolt

☐ 1 Nm

5 - Glide Piece

6 - Sunshade

7 - Assembly Unit

8 - Bolt

☐ 8 Nm

9 - Bolt

☐ 4 Nm

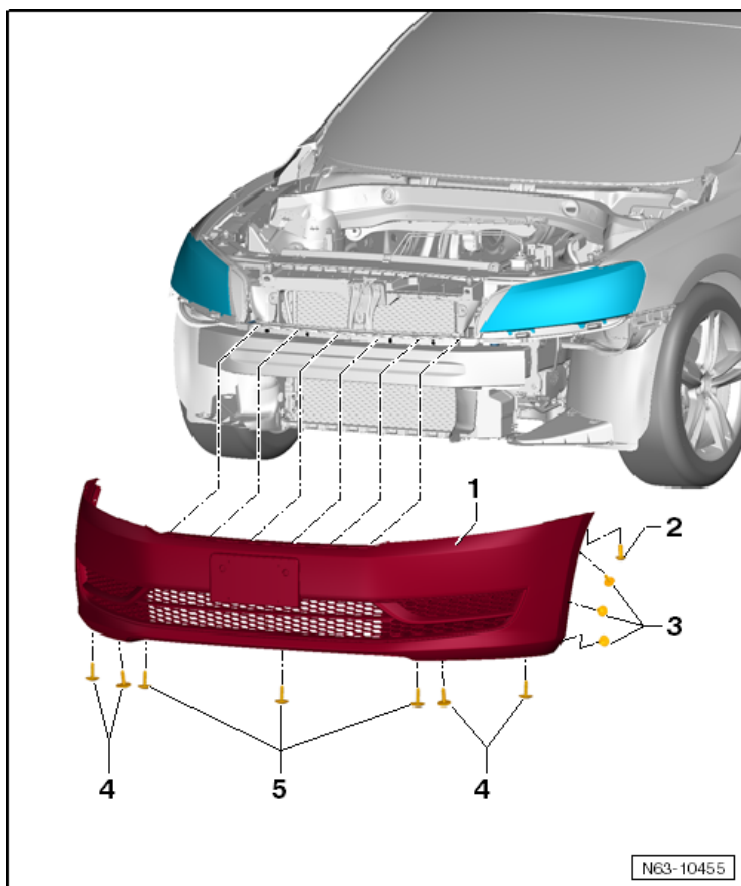
10 - Sunroof Motor

11 - Wind Deflector

12 - Panel Seal

Bumpers

Front Bumper Assembly Overview



1 - Front Bumper Cover

2 - Bolt

☐ 2 Nm

3 - Bolt

☐ 2 Nm

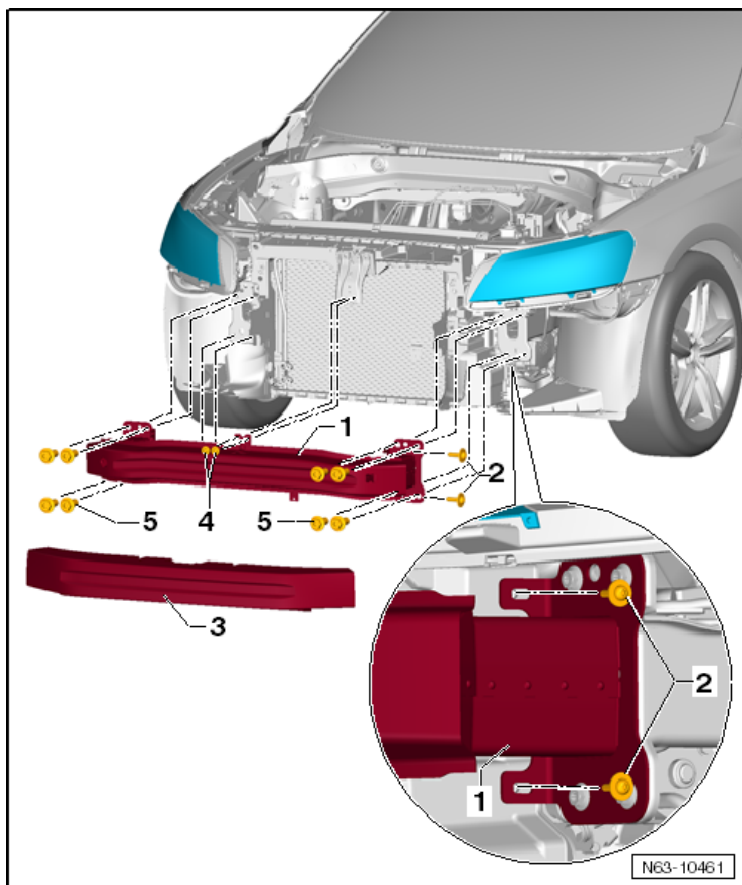
4 - Bolt

☐ 2 Nm

5 - Bolt

☐ 2 Nm

Front Bumper Assembly Overview



Body

1 - Front Bumper Carrier

2 - Bolt

□ 8 Nm $\pm$ 0.8 Nm

3 - Foam Piece

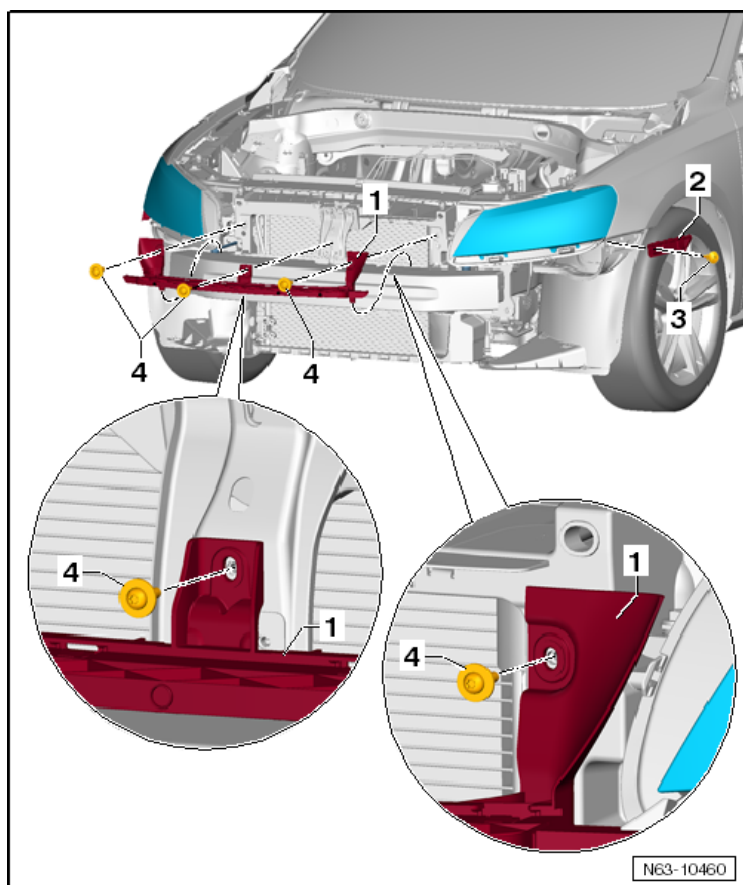
4 - Bolt

□ 12 Nm $\pm$ 1.2 Nm

5 - Bolt

□ 60 Nm $\pm$ 6 Nm

Front Bumper Cover Guides Assembly Overview



1 - Center Guide

2 - Side Guide

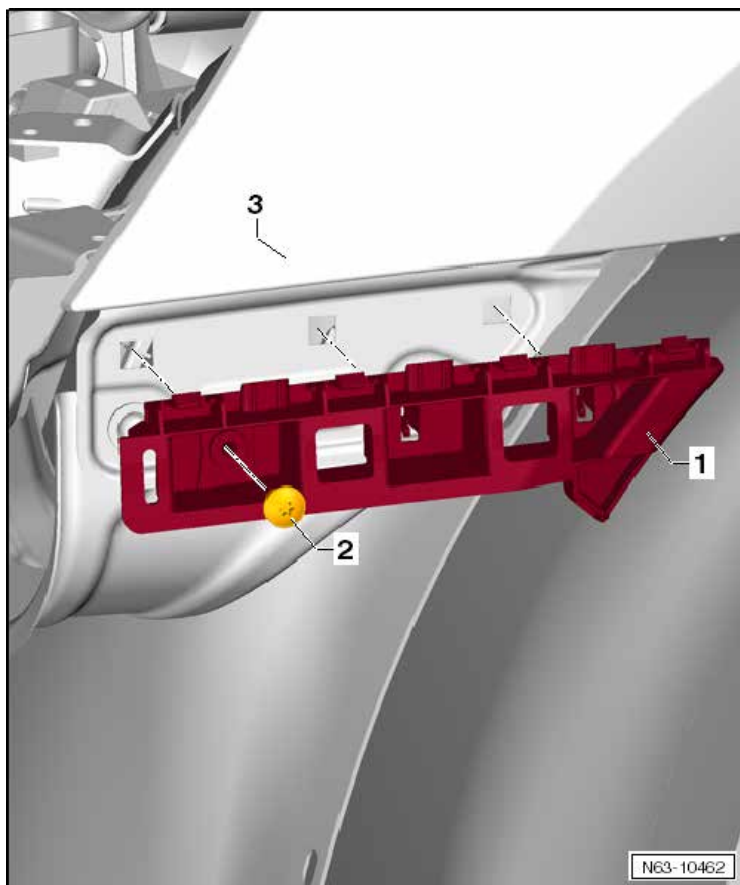
3 - Bolt

□ 2 Nm $\pm$ 0.2 Nm

4 - Bolt

□ 8 Nm $\pm$ 0.8 Nm

Front Bumper Side Guide Assembly Overview



Body

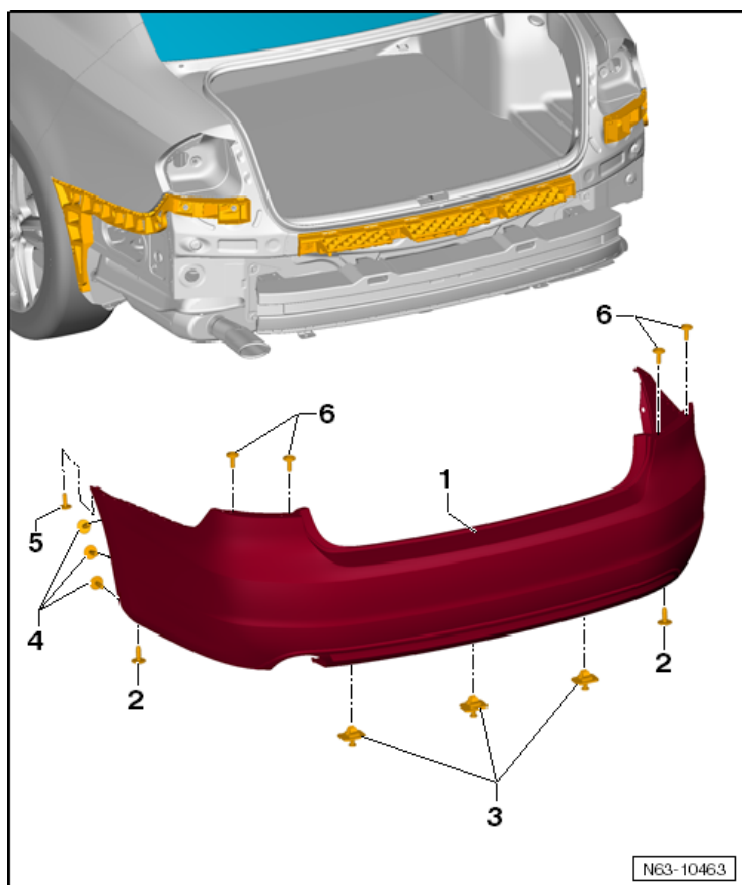
1 - Left Guide Profile

2 - Bolt

□ 2 Nm $\pm$ 0.2 Nm

3 - Fener

Rear Bumper Assembly Overview



1 - Rear Bumper Cover

2 - Bolt

☐ 2 Nm $\pm$ 0.2 Nm

3 - Expanding Rivet

4 - Bolt

☐ 2 Nm $\pm$ 0.2 Nm

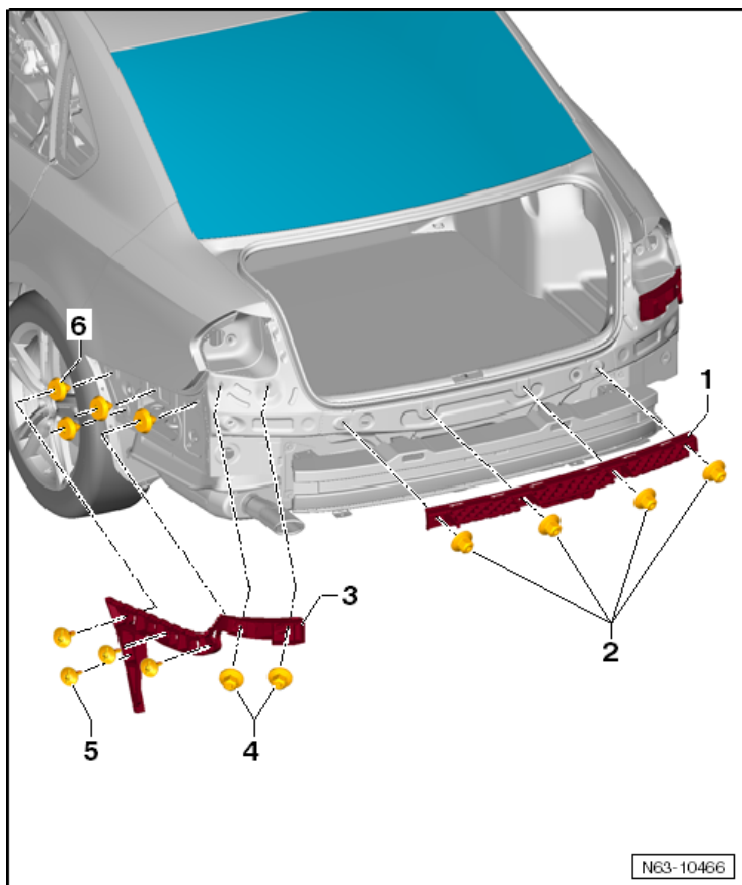
5 - Bolt

☐ 2 Nm $\pm$ 0.2 Nm

6 - Bolt

☐ 8 Nm $\pm$ 0.8 Nm

Rear Bumper Cover Guides Assembly Overview



Body

1 - Securing Strip

2 - Nut

□ 3 Nm $\pm$ 0.3 Nm

3 - Side Guide

4 - Nut

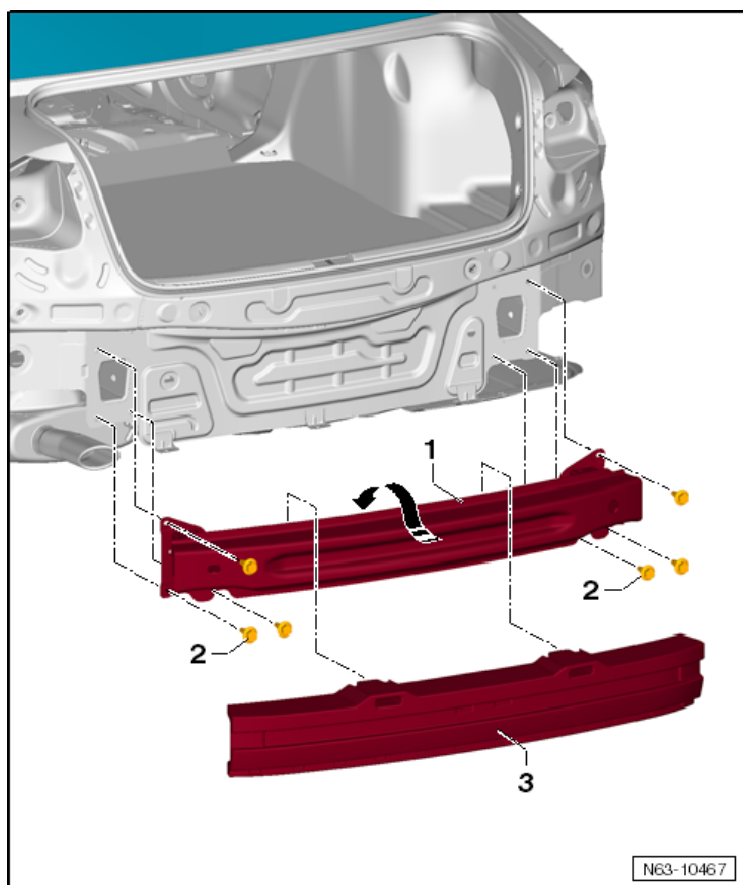
□ 3 Nm $\pm$ 0.3 Nm

5 - Bolt

□ 2 Nm $\pm$ 0.2 Nm

6 - Expanding Nut

Rear Bumper Carrier Assembly Overview



1 - Rear Bumper Carrier

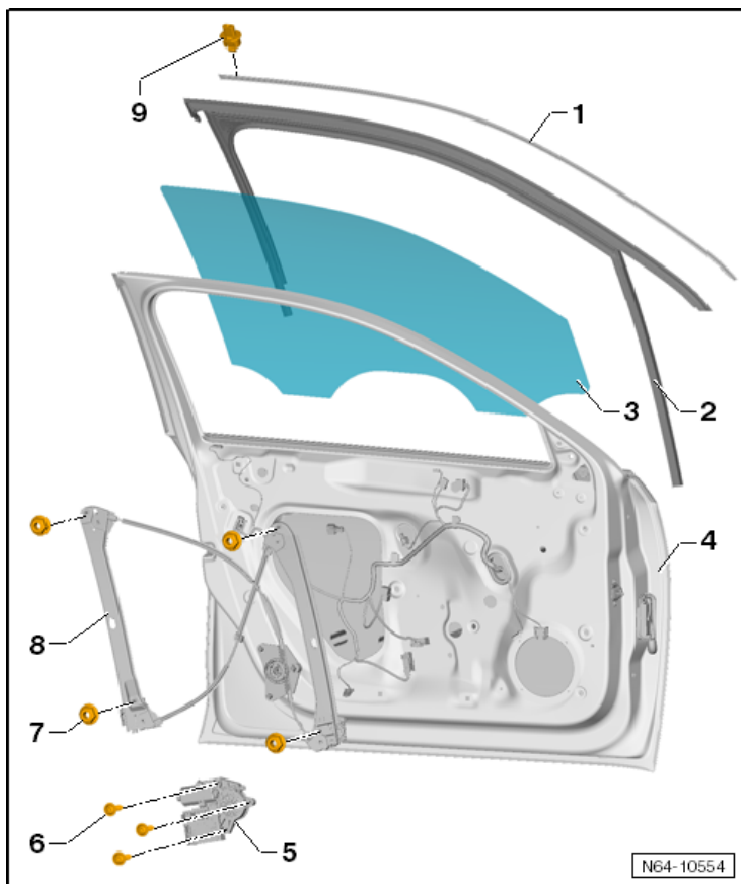
2 - Bolt

□ 20 Nm $\pm$ 3 Nm

3 - Rear Foam Piece

Glass, Window Regulators

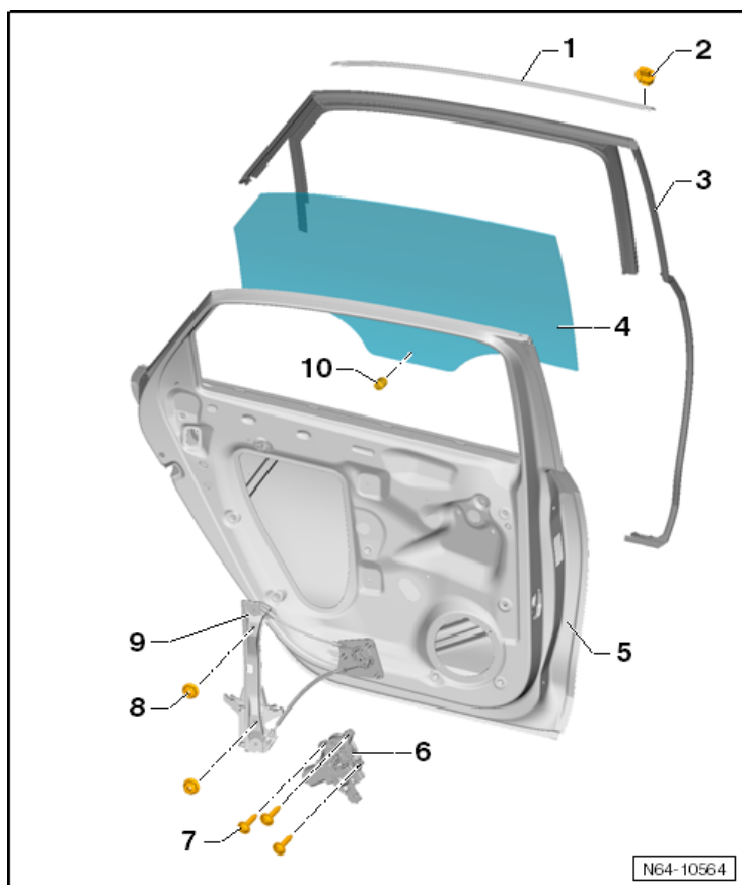
Front Door Window Assembly Overview



Body

- 1 - Decorative Strip
- 2 - Window Guide
- 3 - Door Window
- 4 - Front Door
- 5 - Window Regulator Motor
- 6 - Bolt
 - ☐ 3 Nm
- 7 - Nut
 - ☐ 8 Nm
- 8 - Window Regulator
- 9 - Expanding Clip

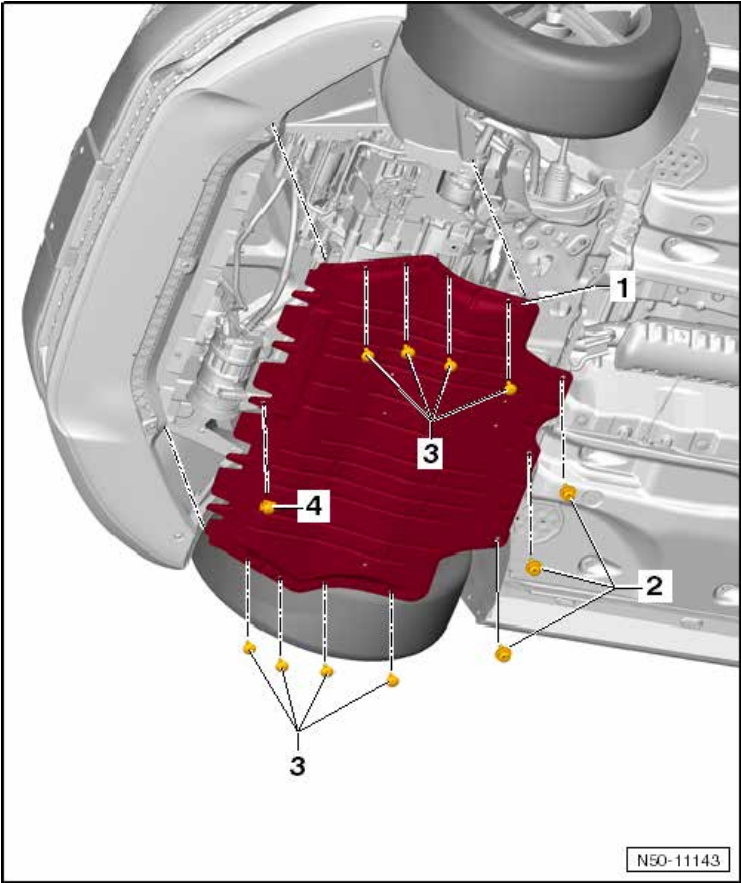
Rear Door Window Assembly Overview



- 1 - Decorative Strip**
- 2 - Expanding Clip**
- 3 - Window Guide**
- 4 - Door Window**
- 5 - Rear Door**
- 6 - Window Regulator Motor**
- 7 - Bolt**
 - ☐ 3 Nm
- 8 - Nut**
 - ☐ 8 Nm
- 9 - Window Regulator**
- 10 - Spreader Plug with Expanding Pin**

Exterior Equipment

Diesel Engine Noise Insulation Assembly Overview



Body

1 - Noise Insulation

2 - Bolt

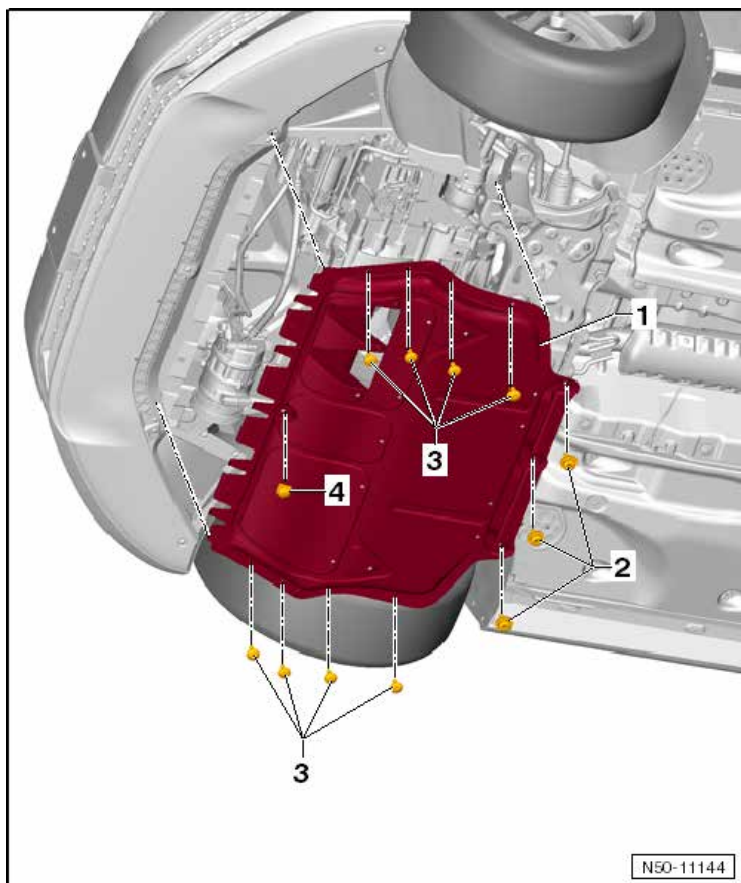
□ $6 \pm 1.0 \text{ Nm}$

3 - Bolt

□ $2 \pm 0.4 \text{ Nm}$

4 - Clip

Gasoline Engine Noise Insulation Assembly Overview



1 - Noise Insulation

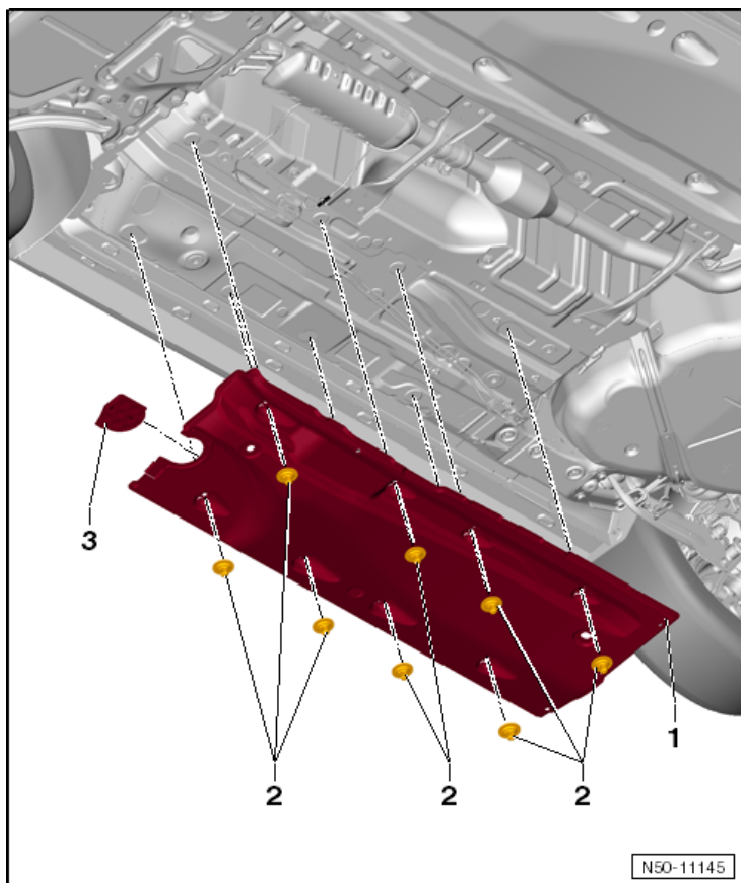
2 - Bolt

□ 6 ± 1.0 Nm

3 - Bolt

□ 2 ± 0.4 Nm

Underbody Panels Assembly Overview



Body

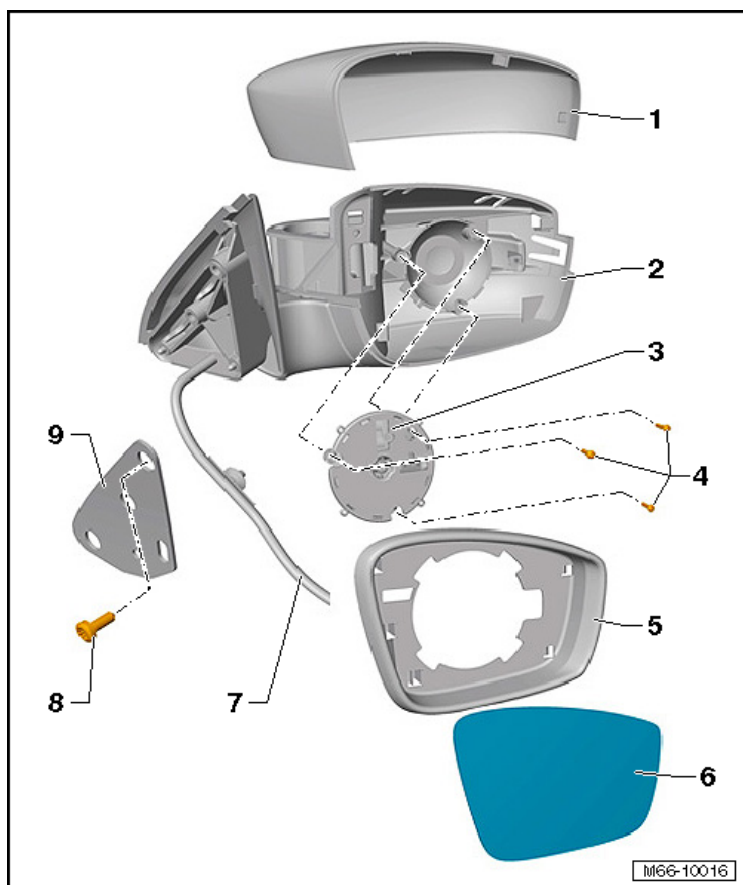
1 - Underbody Panel

2 - Nut

□ 2 Nm

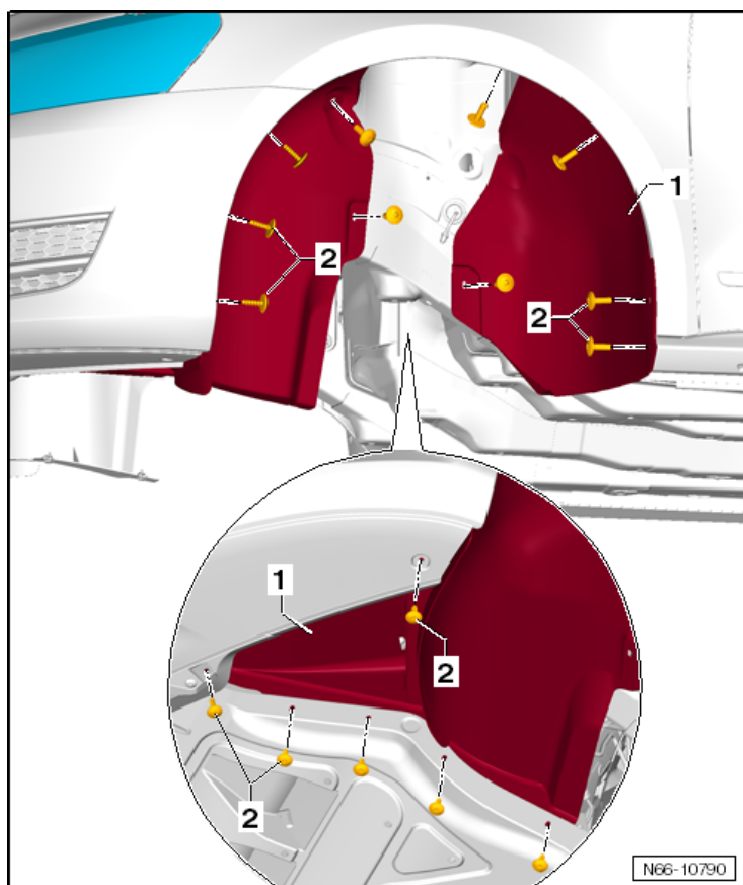
3 - Cover

Exterior Rearview Mirror Assembly Overview



- 1 - Mirror Housing**
- 2 - Mirror Base Plate**
- 3 - Adjusting Unit with Exterior Rearview Mirror Motor**
- 4 - Bolt**
 - ☐ 2 Nm
- 5 - Trim**
- 6 - Mirror Glass**
- 7 - Electric Wire with Connector**
- 8 - Bolt**
 - ☐ 8 Nm
- 9 - Insulation**

Wheel Housing Liner Assembly Overview



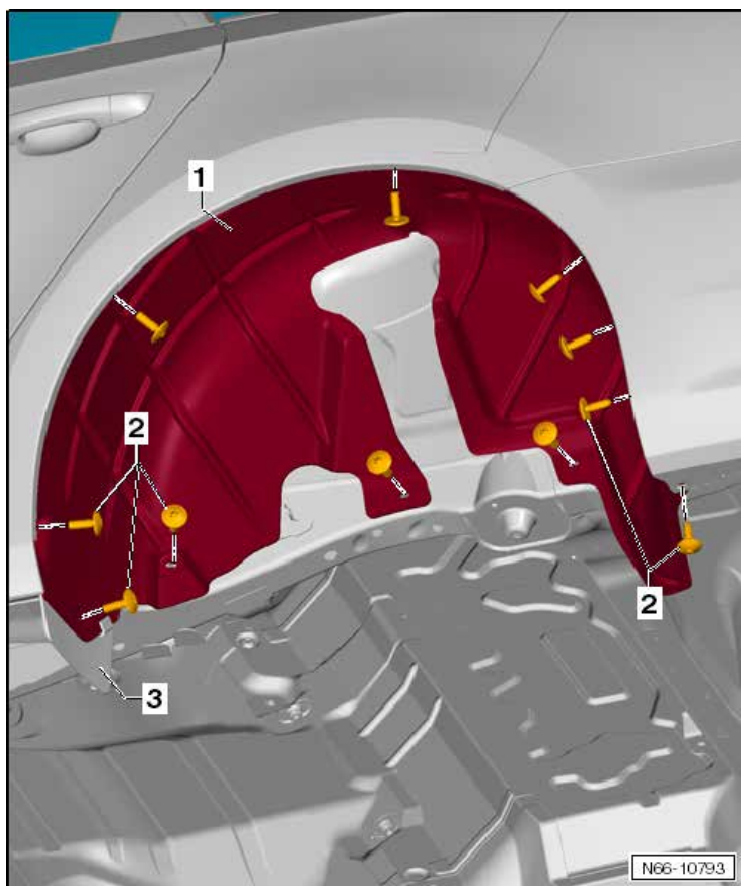
Body

1 - ont Wheel Housing Liner

2 - Bolt

□ 2 Nm

Rear Wheel Housing Liner Assembly Overview



1 - Rear Wheel Housing Liner

2 - Bolt

□ 2 Nm

3 - Sill Panel Cover

Body Interior

Interior Equipment

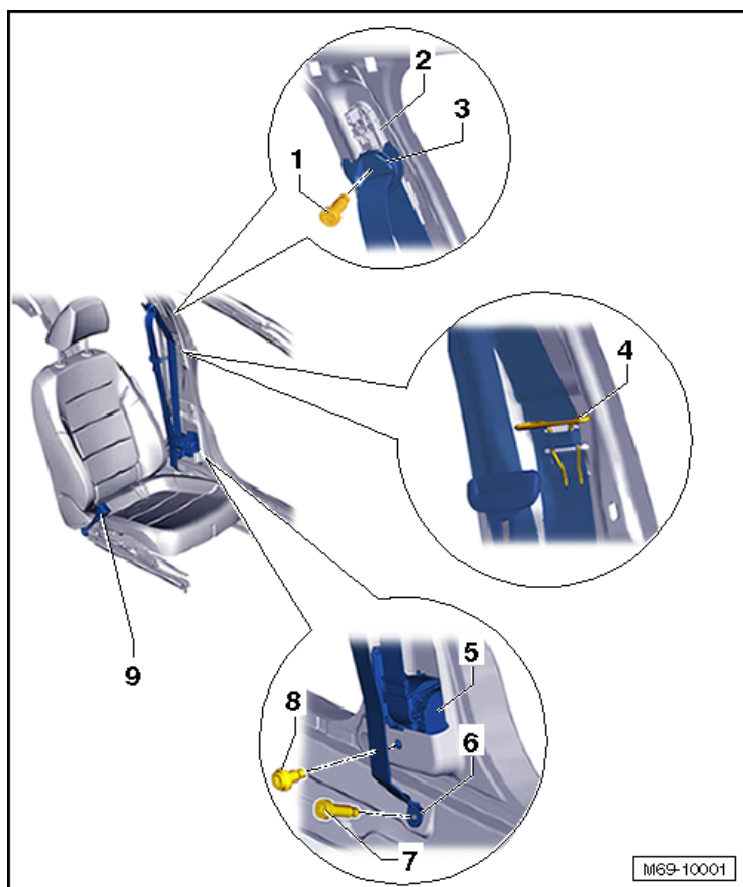
Storage Compartments, Covers and Trim Tightening Specifications

Component	Nm
Armrest	1.5
Center console mounting bracket nuts	8
Footwell trim bolts	1.5
Front console mounting bracket bolts	2
Glove compartment bolts	1.5
Multimedia box bracket bolts	1.5
Roof grab handle bracket bolts	4.5
Sill panel trim bolts	2
Steering column trim bolts	2.5
Storage compartment /ashtray bolts	1.5
Storage compartment in roof trim panel bolts	1.2
Trim screws	1.5

Body

Passenger Protection, Airbags, Seat Belts

Front Three-Point Seat Belt, Vehicles without Belt End Fitting Assembly Overview



1 - Bolt

☐ 40 Nm

2 - Seat Belt Height Adjuster

3 - Seat Belt Guide Ring

4 - Seat Belt Guide

5 - Automatic Belt Retractor

6 - Belt End Fitting

7 - Bolt

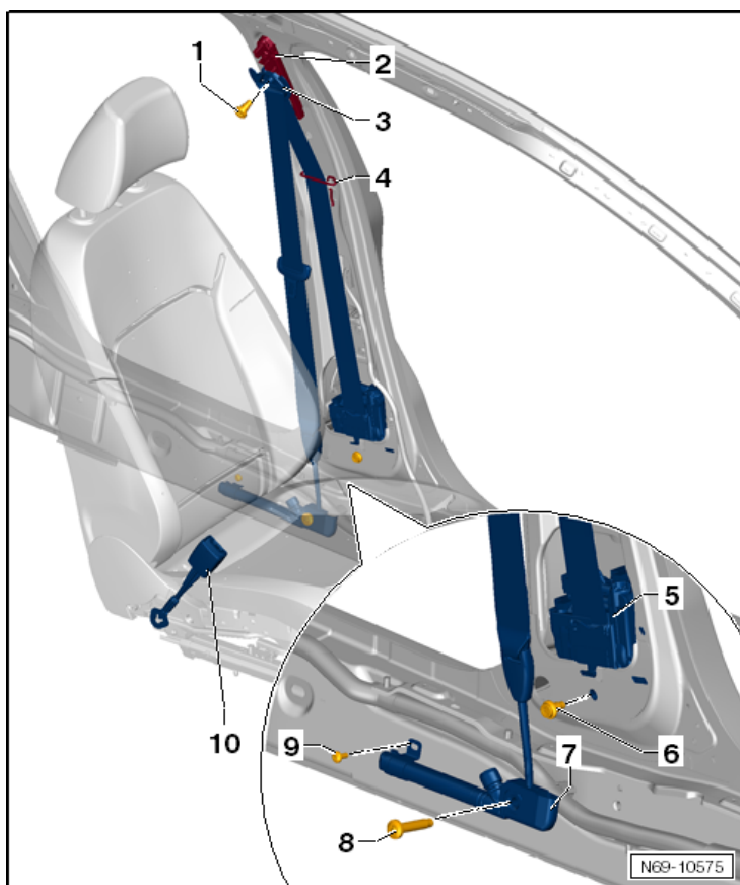
☐ 40 Nm

8 - Bolt

☐ 40 Nm

9 - Seat Belt Latch

Front Three-Point Seat Belt, Vehicles with Belt End Fitting Assembly Overview



Body

1 - Bolt

☐ 40 Nm

2 - Seat Belt Height Adjuster

3 - Seat Belt Guide Ring

4 - Seat Belt Guide

5 - Automatic Belt Retractor

6 - Bolt

☐ 40 Nm

7 - Belt End Fitting, Phase 2

8 - Bolt

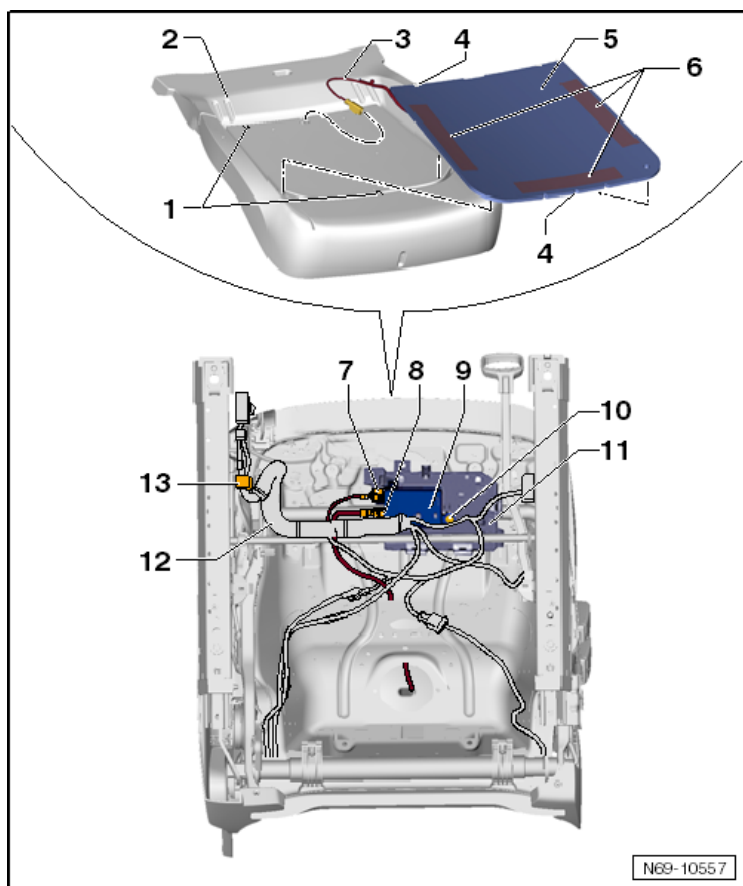
☐ 40 Nm

9 - Bolt

☐ 8 Nm

10 - Seat Belt Latch

Passenger Occupant Detection System Component Location Overview



- 1 - Positioning Aids
- 2 - Front Seat Cushion
- 3 - Wiring Harness
- 4 - Positioning Aids
- 5 - Seat Occupied Recognition Pressure Sensor -G452-
- 6 - Adhesive Surfaces
- 7 - Connector
- 8 - Connector
- 9 - Passenger Occupant Detection System Control Module -J706-
- 10 - Bolt
 - 1.5 Nm
- 11 - Bracket
- 12 - Front Seat Wiring Harness
- 13 - Connector

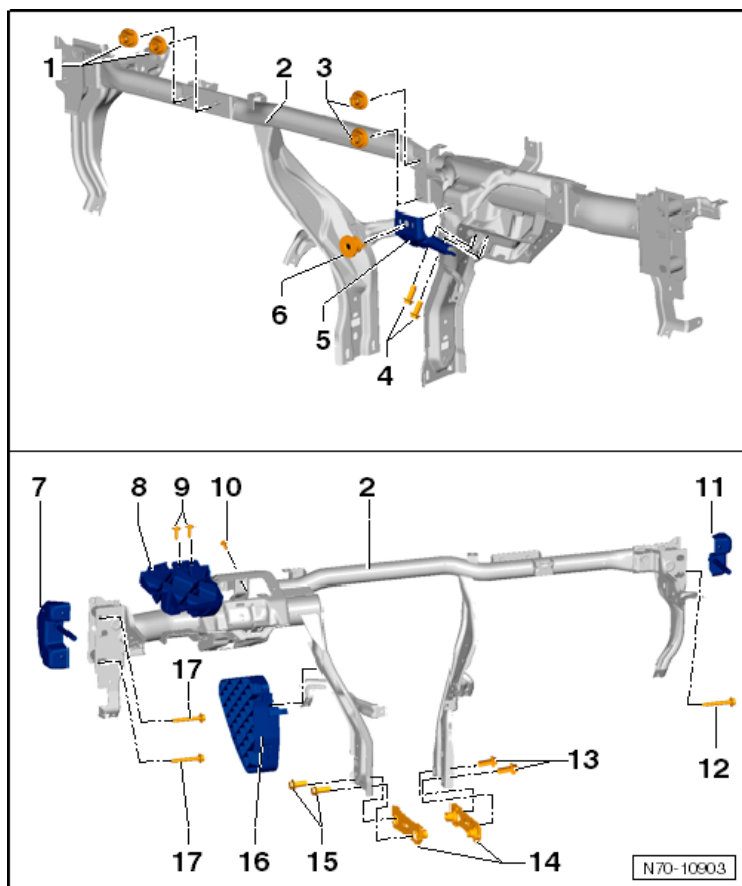
Passenger Protection Fastener Tightening Specifications

Component	Nm
Airbag control module nuts	1.5
Airbag crash sensor	9
Belt anchor bolt	40
Front belt height adjustment bolt	40
Front belt latch bolt ¹⁾	20
Front passenger airbag bolts	8
Front seat belt relay bolt	40
Rear belt latch	40
Rear center belt latch bolt	40
Rear dual seat belt latch bolt	40
Rear seat belt end fitting bolt	40
Side airbag bolts	9
Three-point seat belt	40

¹⁾ Replace fastener(s).

Interior Trim

Instrument Panel Central Tube Assembly Overview



1 - Nut

□ 4.5 Nm

2 - Instrument Panel Central Tube

3 - Nut

□ 9 Nm

4 - Bolt

□ 9 Nm

5 - Brace

6 - Adjuster

7 - Mount with Extensor

8 - Driver Side Deformation Element

9 - Bolt

□ 1.5 Nm

10 - Bolt

□ 20 Nm

11 - Mount with Extensor**12 - Bolt**☐ 20 Nm**13 - Bolt**☐ 20 Nm**14 - Threaded Plate****15 - Bolt**☐ 20 Nm**16 - Center Deformation Element****17 - Bolt**☐ 20 Nm**Interior Trim Fastener Tightening Specifications**

Component	Nm
A-pillar trim bolts	4.5
B-pillar trim bolts	4.5
C-pillar trim screws	2
Front door trim bolts	2
Rear lid trim screws	1.5
Roof grab handle bracket	4.5

Seat Frames Fastener Tightening Specifications

Component	Nm
Front seat backrest bolts	35
Front seat frame bolts	40
Height adjustment trim piece	3
Seat bracket bolts	8
Seat drawer mount bolts	8
Trim screws	2 - 3

HEATING, VENTILATION AND AIR CONDITIONING

General, Technical Data

Refrigerant Oil Distribution

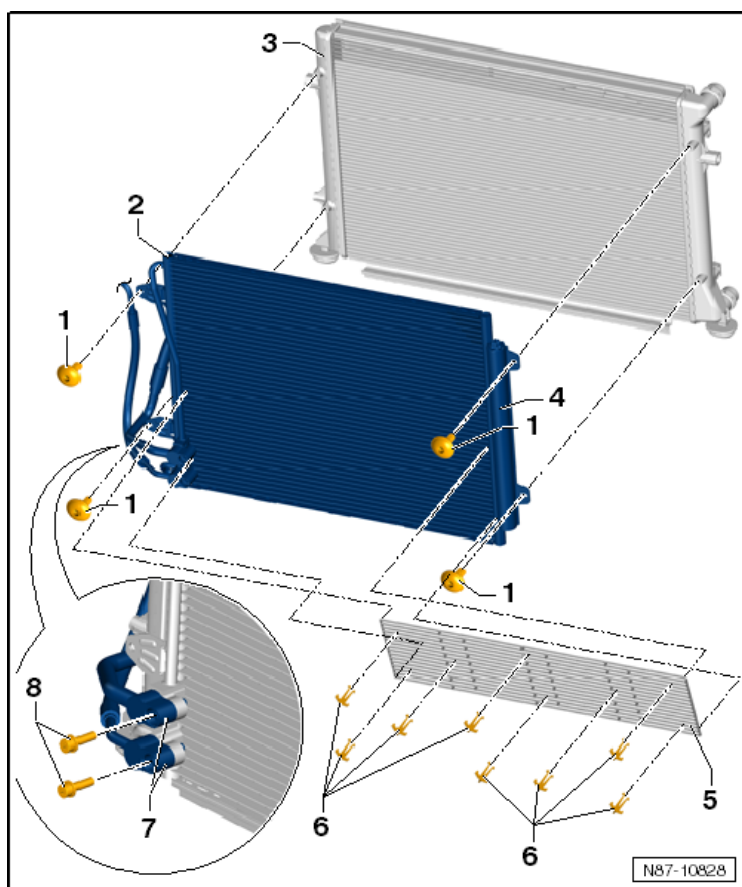
Component	Approximate % of total amount of oil in component
A/C compressor	50
Condenser	10
Suction hose	10
Evaporator	20
Fluid reservoir	10

Refrigerant R134a Vapor Pressure Table

Temperature in ° C	Pressure in bar (positive pressure) of R134a
-45	-0.61
-40	-0.49
-35	-0.34
-30	-0.16
-25	0.06
-20	0.32
-15	0.63
-10	1.00
-5	1.43
0	1.92
5	2.49
10	3.13
15	3.90
20	4.70
25	5.63
30	6.70
35	7.83
40	9.10
45	10.54
50	12.11
55	13.83
60	15.72
65	17.79
70	20.05
75	22.52
80	25.21
85	28.14
90	31.34

Air Conditioning

Condenser Overview



1 - Bolts

□ 5 Nm

2 - Condenser with Fluid Reservoir

3 - Radiator

4 - Reservoir with Dryer Cartridge

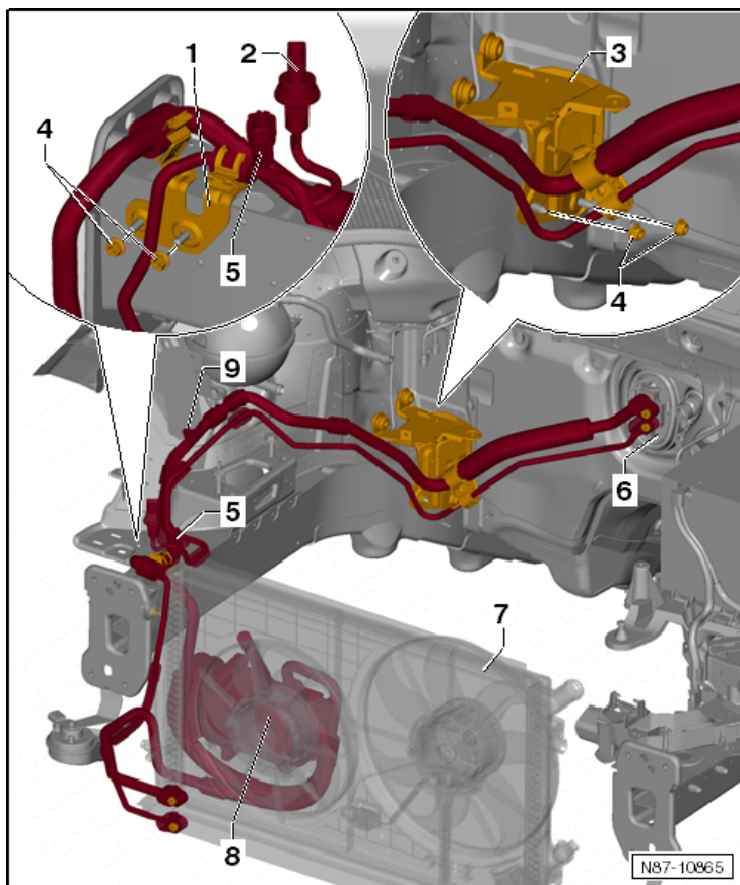
5 - Condenser Stone Chip Protection Grille

6 - Clip

7 - Bolt

□ 12 Nm

Refrigerant Circuit Overview



- 1 - Bracket
- 2 - High pressure sensor -G65-
- 3 - Bracket
- 4 - Hex Head Nut
 - 6 Nm
- 5 - Evacuating and Charging Valve
- 6 - Expansion Valve
- 7 - Condenser
- 8 - A/C Compressor
- 9 - Evacuating and Charging Valve

Fastener Tightening Specifications

Component	Nm
A/C compressor mounting bolts	23
Defroster door motor	1.5
Evacuating and charging valve insert	2
Expansion valve bolts	5
Fresh air blower control module	2
Fresh air/recirculating air/back pressure door motor	1.5
Fluid reservoir with dryer cartridge	4.2 ± 0.7
Front A/C display control head	1.5
Front air distribution door motor	1.5
Heater and A/C unit-to-instrument panel cross member nuts	9
Heater and A/C unit-to-retaining bracket bolts	9
Left temperature door motor	1.5
Refrigerant lines-to-A/C compressor bolts	22
Refrigerant lines-to-expansion valve	12
Right temperature door motor	1.5
Schrader valve insert	2.4 ± 0.2
Upper to lower heat and A/C unit housing bolts	1.5
Valve With M12 x 1.5 mm External Threads and Groove for O-ring	7 ± 1

ELECTRICAL SYSTEM

Communication Equipment

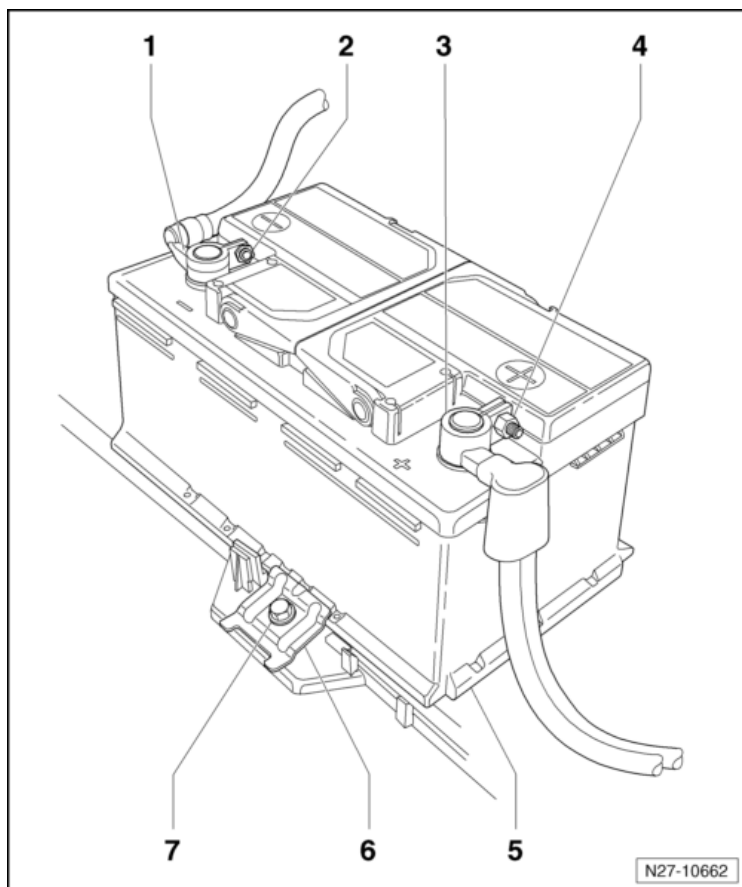
Fastener Tightening Specifications

Component	Nm
Amplifier module carrier-to-tunnel screws	1.2
Amplifier module carrier-to-bracket screws	6
Amplifier module carrier bracket nuts	6
Antenna module-to-pillar	2
Radio/RNS	1.5
Roof antenna	7 +1
Subwoofer	2
Treble speaker	2
Pivoting Motor	2.5
Pivoting Motor With Rearview Camera	4
Rear View Camera Housing	1.6

Electrical Equipment

Battery, Starter, Generator, Cruise Control

Battery in Engine Compartment Overview



1 - Battery Terminal Clamp Ground Wire

2 - M6 Nut

☐ 6 Nm

3 - Battery Terminal Clamp Positive Wire

4 - M6 Nut

☐ 6 Nm

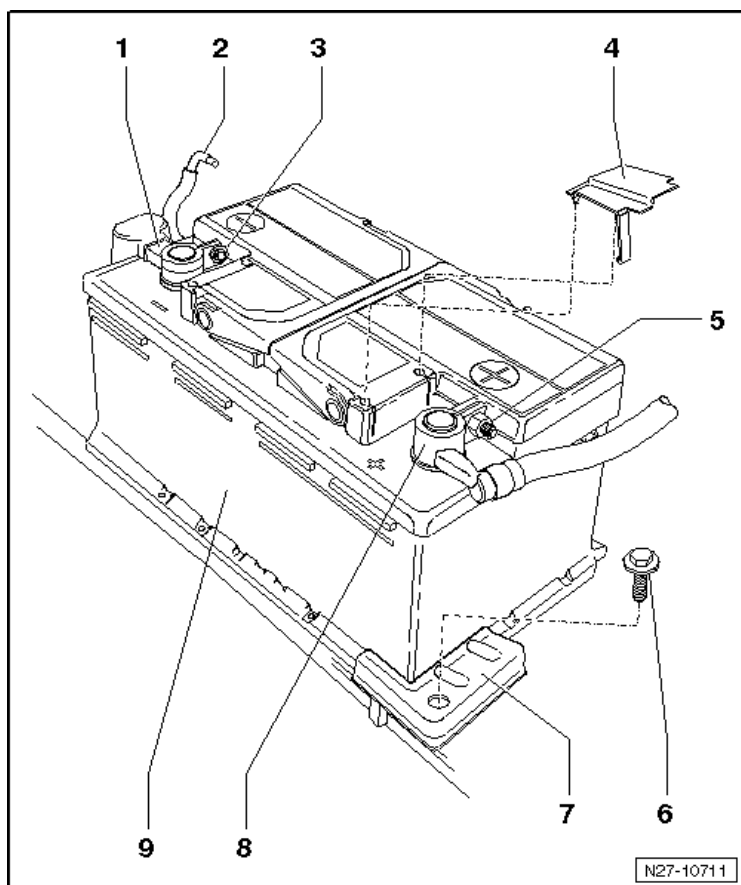
5 - Battery -A-

6 - Clamping Plate

7 - M6 Nut

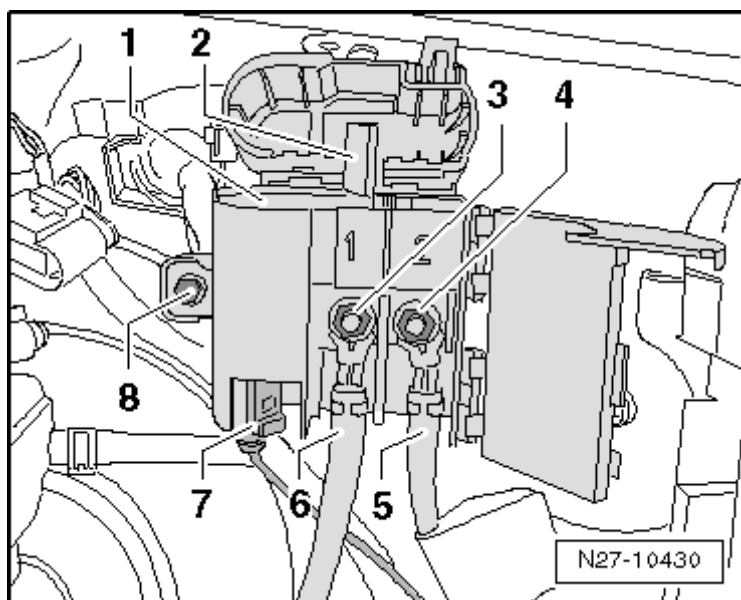
☐ 20 Nm

3.6L Battery in Engine Compartment Overview



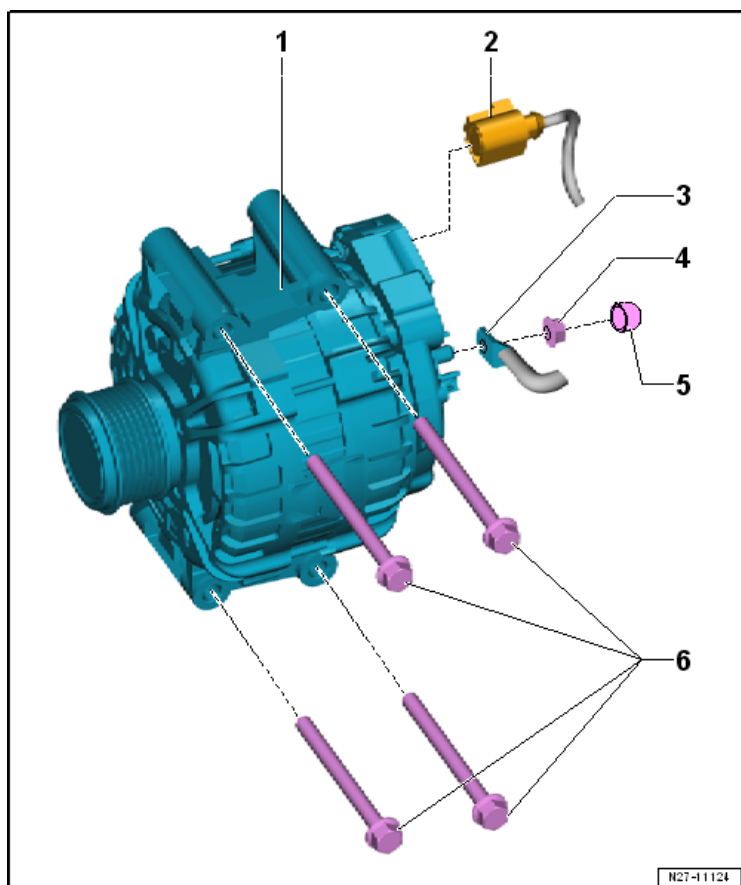
- 1 - Battery Terminal Clamp Ground Wire
- 2 - Central Venting System Hose
- 3 - Mounting Nut For Battery Terminal Clamp Ground Wire
 - M6: 6 Nm
- 4 - Positive Terminal Cover
- 5 - Mounting Nut For Battery Terminal Clamp Positive Wire
 - M6: 6 Nm
- 6 - Mounting Bolt, Clamping Plate
 - M87 x 35: 35 Nm
- 7 - Clamping Plate
- 8 - Battery Terminal Clamp Positive Wire
- 9 - Battery -A-

3.6L External Starting Point with Suppressor -C24- Overview



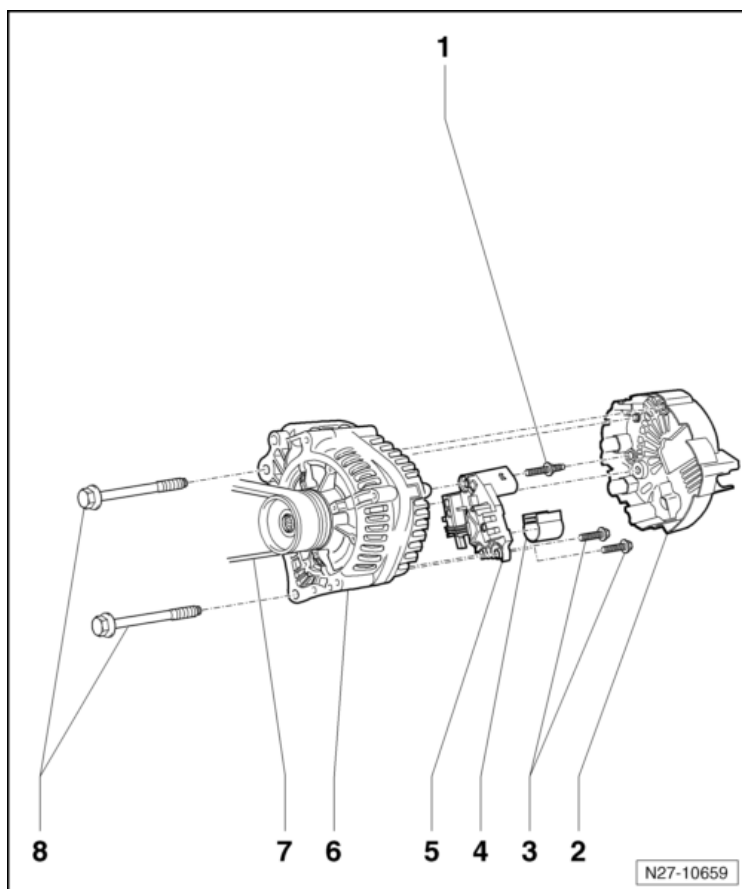
- 1 - Suppressor
- 2 - Battery Jump Start Terminal
- 3 - Mounting Nut
 - 15 Nm
- 4 - Mounting Nut
 - 15 Nm
- 5 - Terminal 30 Wire from Battery Interrupt Igniter -N253-
- 6 - Terminal 30 Wire to Starter -B-
- 7 - Suppressor Connector
- 8 - Bolt
 - 9 Nm

1.8L Generator Overview



- 1 - Generator -C-
- 2 - Connector
- 3 - Terminal 30/B+
- 4 - Nut
 - ☐ 20 Nm
- 5 - Cap
- 6 - Bolt
 - ☐ 20 Nm

2.5L Generator Overview



1 - Hex Bolt with Washer and Threaded Piece

- ☐ 2 Nm

2 - Protective Cap For Generator

3 - Phillips Head Screws

- ☐ 2 Nm

4 - Protective Cap For Carbon Brushes

5 - Voltage Regulator

6 - Generator

7 - Ribbed Belt

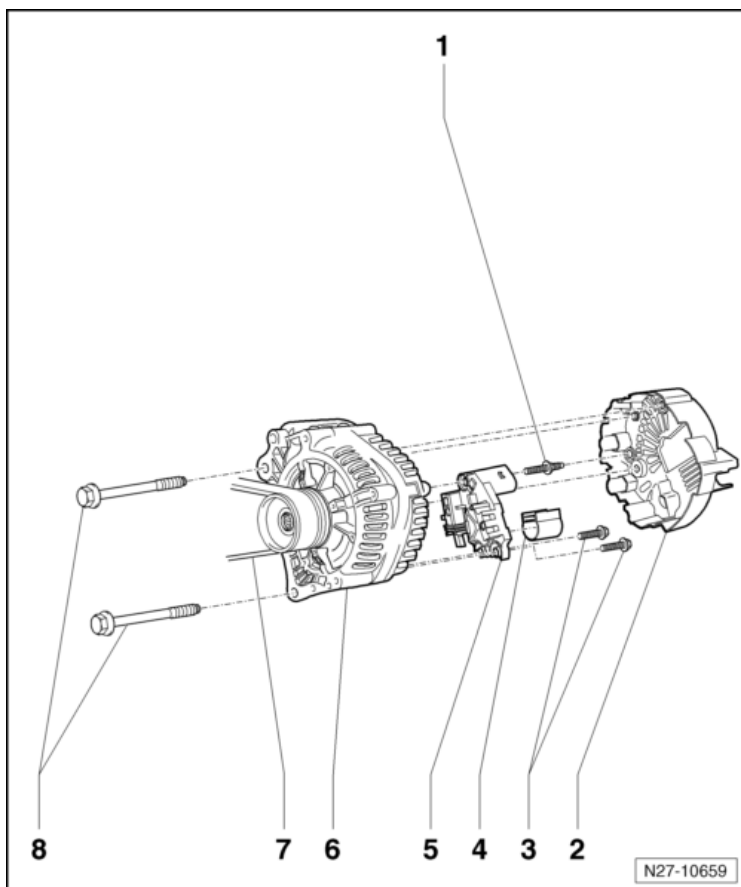
8 - Collar Bolts

- ☐ 20 Nm

Not illustrated

- ☐ B+ wire nut to rear side of generator: 20 Nm
- ☐ Wire holder nut to the back of the generator: 3.2 Nm

3.6L Generator Overview



1 - Hex Bolt with Washer and Threaded Piece

- ☐ M4 x 20, M4 x 15 - 2 Nm

2 - Protective Cap For Generator

- ☐ M5: 3 Nm

3 - Phillips Head Screws

- ☐ M4 x 20 - 2 Nm

4 - Protective Cap For Carbon Brushes

5 - Voltage Regulator

6 - Generator

7 - Ribbed Belt

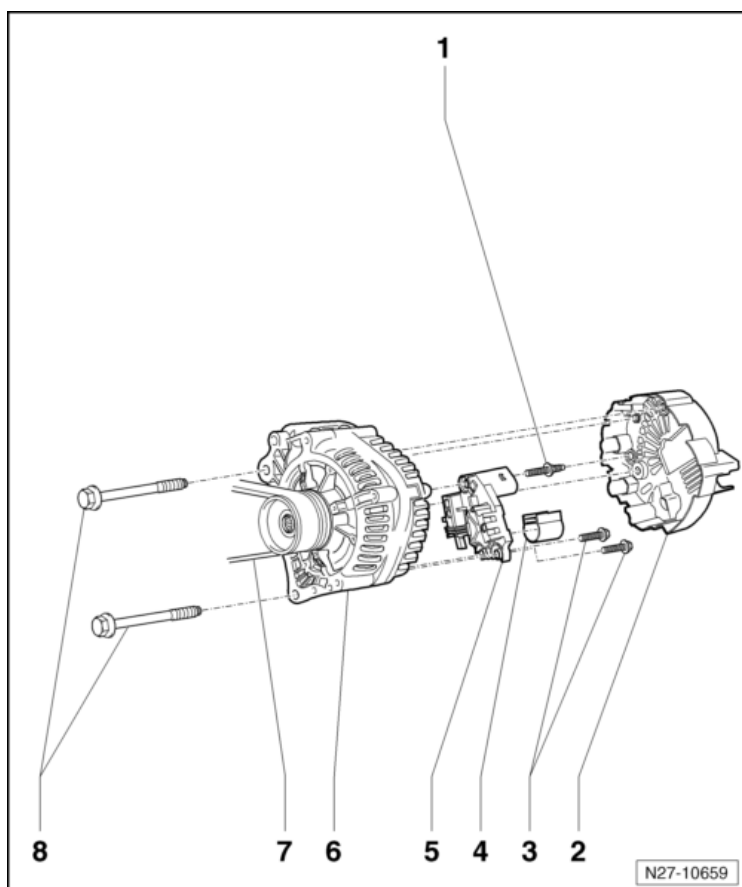
8 - Collar Bolts

- ☐ 20 Nm
- ☐ M8 x 90

Not illustrated

- ☐ B+ wire nut to rear side of generator: 20 Nm
- ☐ Wire holder nut to the back of the generator: 3.2 Nm

TDI Generator Overview



1 - Hex Bolt with Washer and Threaded Piece

- ☐ 2 Nm

2 - Protective Cap For Generator

3 - Phillips Head Screws

- ☐ 2 Nm

4 - Protective Cap For Carbon Brushes

5 - Voltage Regulator

6 - Generator

7 - Ribbed Belt

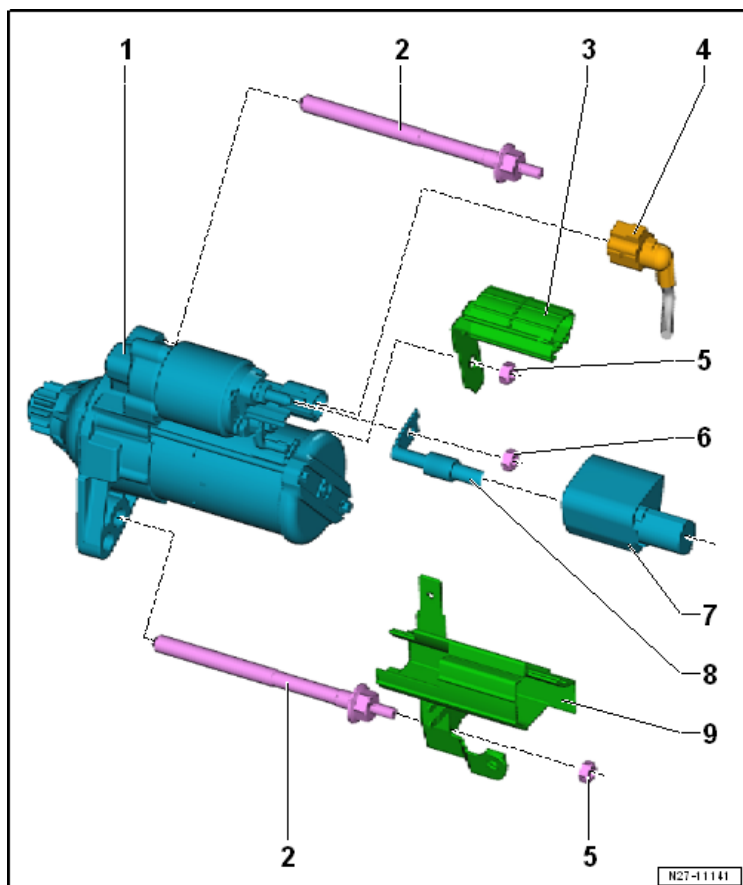
8 - Collar Bolts

- ☐ 20 Nm
- ☐ M8 x 90

Not illustrated

- ☐ B+ wire nut to rear side of generator: 20 Nm
- ☐ Wire holder nut to the back of the generator: 3.2 Nm

Starter Overview



1 - Starter -B-

2 - Bolt

□ 80 Nm

3 - Retainer

4 - Connector

5 - Nut

□ 20 Nm

6 - Nut

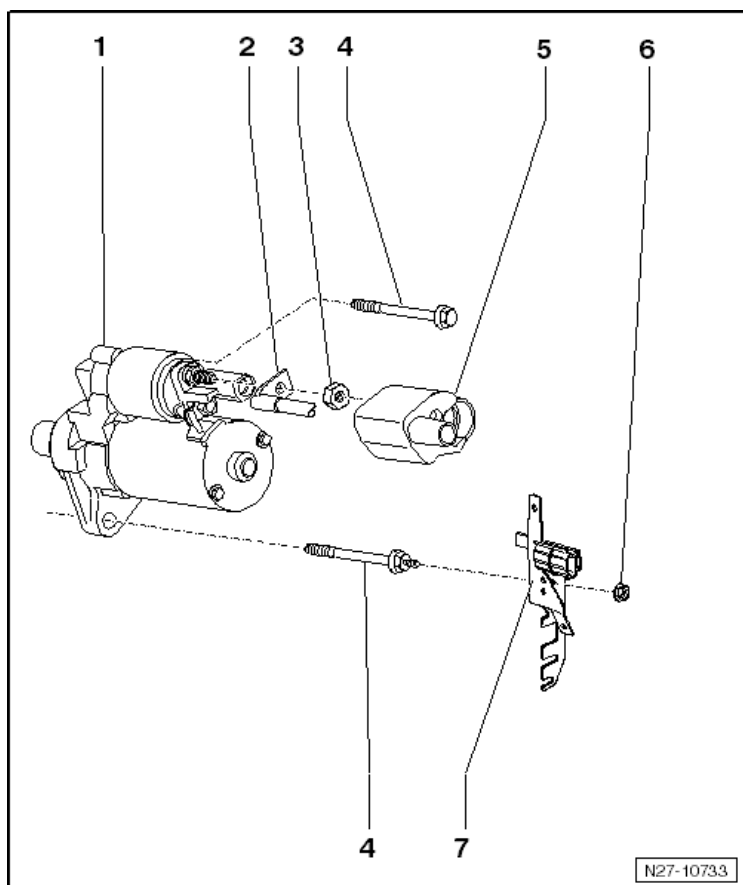
□ 20 Nm

7 - Cap

8 - Terminal 30/B+

9 - Retainer

Manual Transmission 0A4 Starter Overview



1 - Stator -B-

2 - Connection, B+ Wire to Starter

3 - Nut

☐ 20 Nm

4 - Starter Bolt

☐ M10 = 40 Nm

☐ M12 = 80 Nm

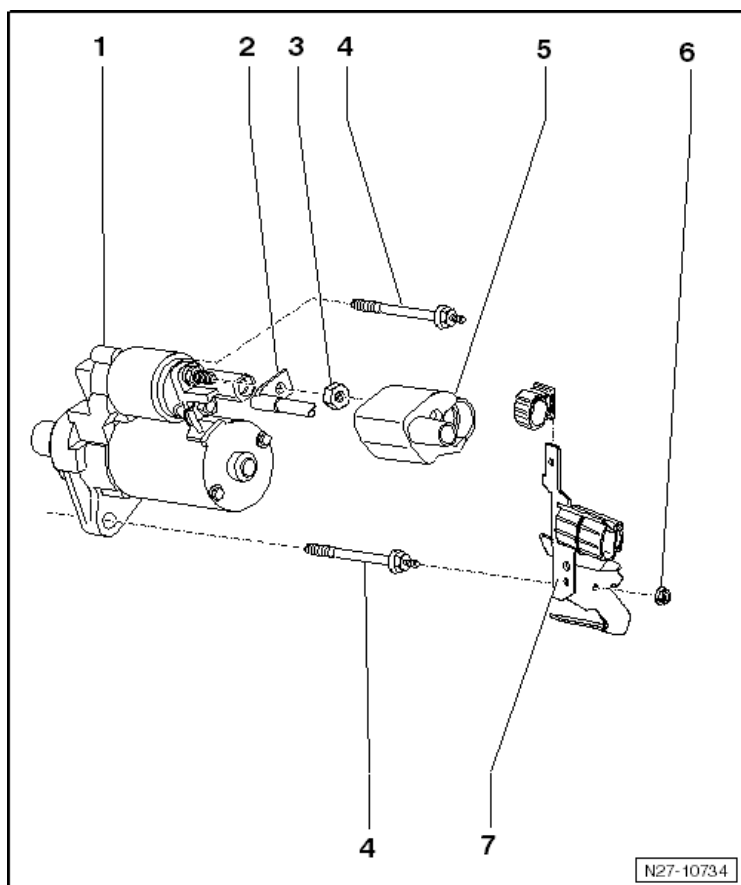
5 - Cap

6 - Wiring Bracket Nut

☐ 20 Nm

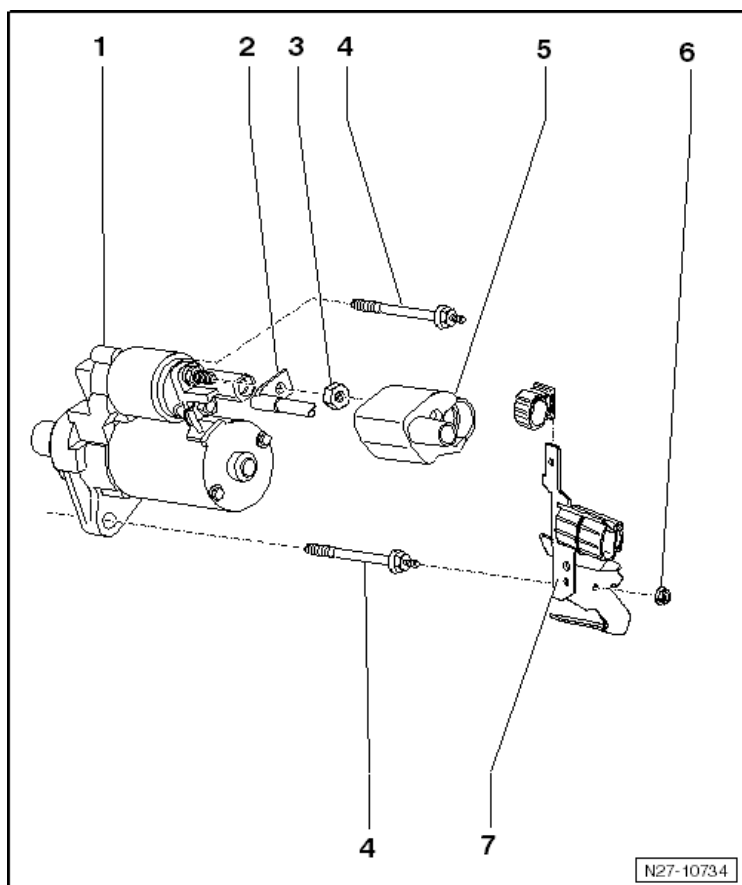
7 - Wiring Bracket

Automatic Transmission 09G Starter Overview



- 1 - Stator -B-**
- 2 - Connection, B+ Wire to Starter**
- 3 - M8 Nut, B+ Wire To Starter**
 - ☐ 20 Nm
- 4 - Starter Bolt**
 - ☐ M10 = 40 Nm
 - ☐ M12 = 80 Nm
- 5 - Cap**
- 6 - Wiring Bracket M8 Nut**
 - ☐ 20 Nm
- 7 - Wiring Bracket**

Manual Transmission 02Q Starter Overview



1 - Stator -B-

2 - Connection, B+ Wire to Starter

3 - M8 Nut, B+ Wire To Starter

□ 20 Nm

4 - Starter Bolt

□ M12 = 80 Nm

5 - Cap

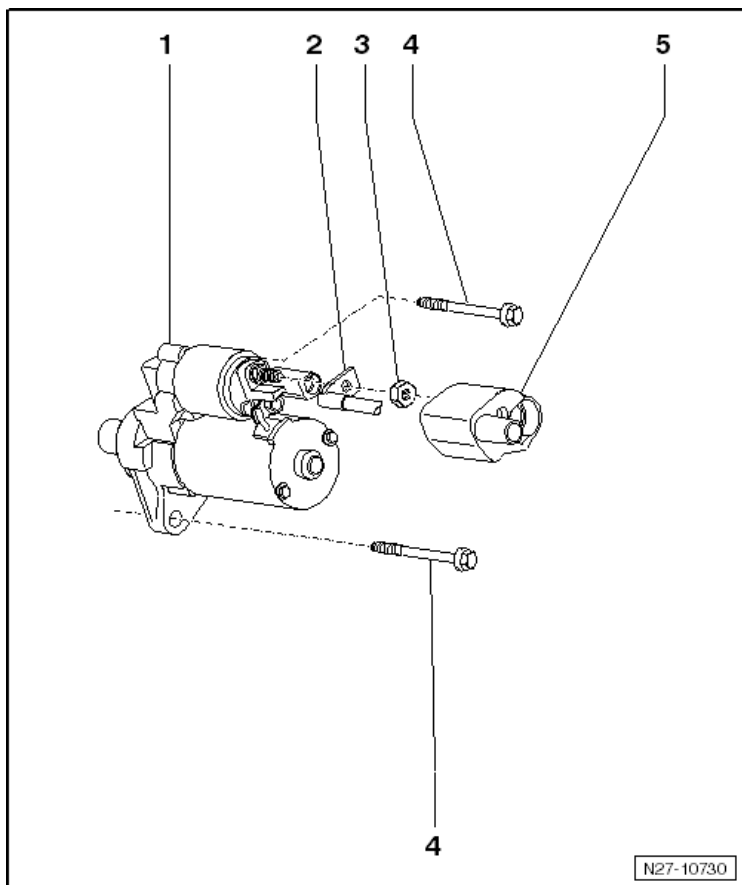
6 - Wiring Bracket Nut

□ 23 Nm

□ M8

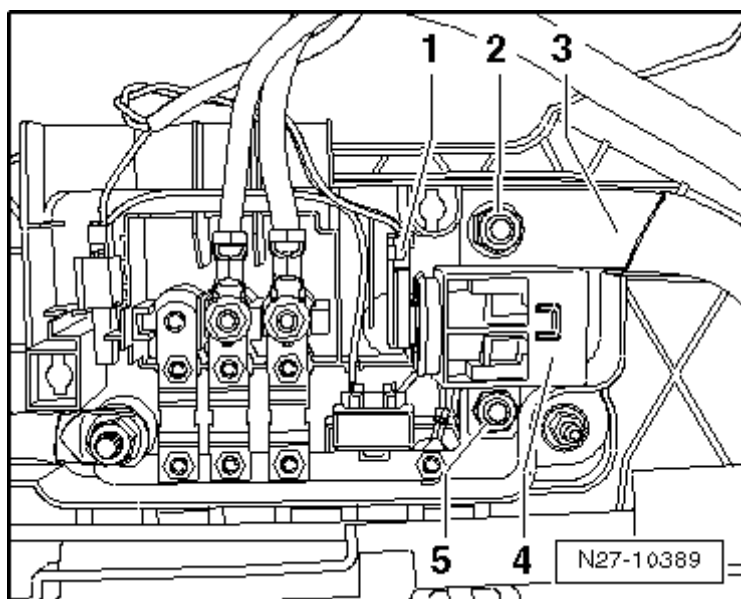
7 - Wiring Bracket

DSG Transmission Starter Overview



- 1 - Starter
- 2 - Connection B+ Wire To Starter
- 3 - Mounting Nut B+ Wire To Starter
 - ☐ 20 Nm
 - ☐ M8
- 4 - Starter Bolts
 - ☐ 80 Nm
 - ☐ M12
- 5 - Protective Cap
- 6 - Generator
- 7 - Ribbed Belt
- 8 - Collar Bolts

Pyrotechnic Battery Isolator Overview



- 1 - Harness connector on pyrotechnic battery isolator.
- 2 - Nut (collar nut) for B+ wire and pyrotechnic battery isolator in main fuse box
 - 15 Nm
- 3 - B+ Wire
- 4 - Pyrotechnic battery isolator.
- 5 - Mounting nut (self-locking) for pyrotechnic battery isolator in main fuse box
 - 15 Nm

Fastener Tightening Specifications

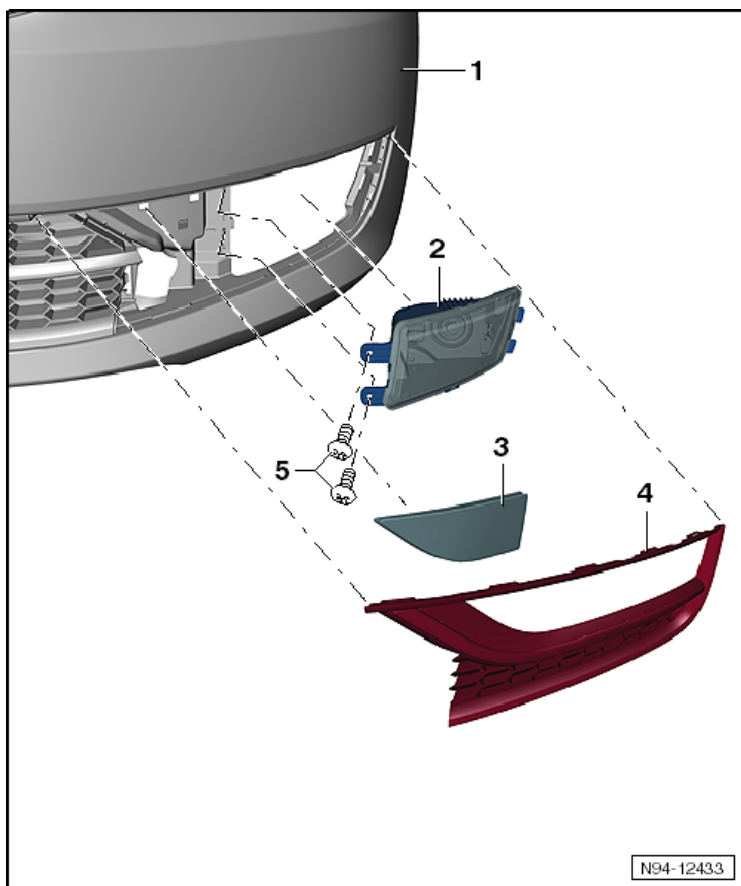
Component	Fastener size	Nm
Air filter housing-to-body bolt	-	10
B+ wire connection-to-generator	-	20
Instrument cluster	-	1.5

Windshield Wiper/Washer Tightening Specifications

Component	Nm
Spray nozzle lift cylinder on the front bumper cover	2
Windshield and headlamp washer fluid reservoir-to-body	8
Windshield wiper motor crank-to-windshield wiper motor shaft	18
Wiper arm-to-shaft nut	20
Wiper linkage-to-body	8

Exterior Lights, Switches

Fog Lamps Overview



1 - Front Bumper Cover

2 - Fog Lamp Housing

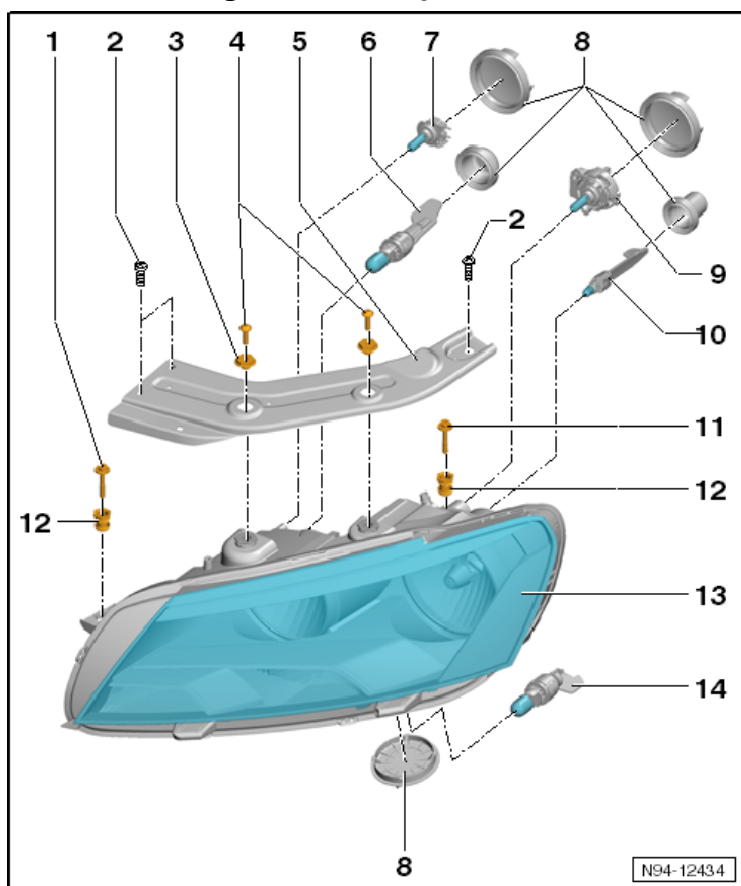
3 - Reflector Trim

4 - Divider

5 - Screw

☐ 2 Nm

Halogen Headlamps Overview



- 1 - Screw**
□ 5 Nm
- 2 - Screw**
□ 8 Nm
- 3 - Adapter**
- 4 - Screw**
□ 5 Nm
- 5 - Carrier, Front End**
- 6 - Left Front Turn Signal Lamp -M5-/Right Front Turn Signal Lamp -M7-**
- 7 - Left High Beam Headlamp Bulb -M30-/Right High Beam Headlamp Bulb -M32-**
- 8 - Cap**
- 9 - Left Low Beam Headlamp -M29-/Right Low Beam Headlamp -M31-**
- 10 - Left Front Side Marker Lamp Bulb -M33-/Right Front Side Marker Lamp Bulb -M34-**

11 - Screw

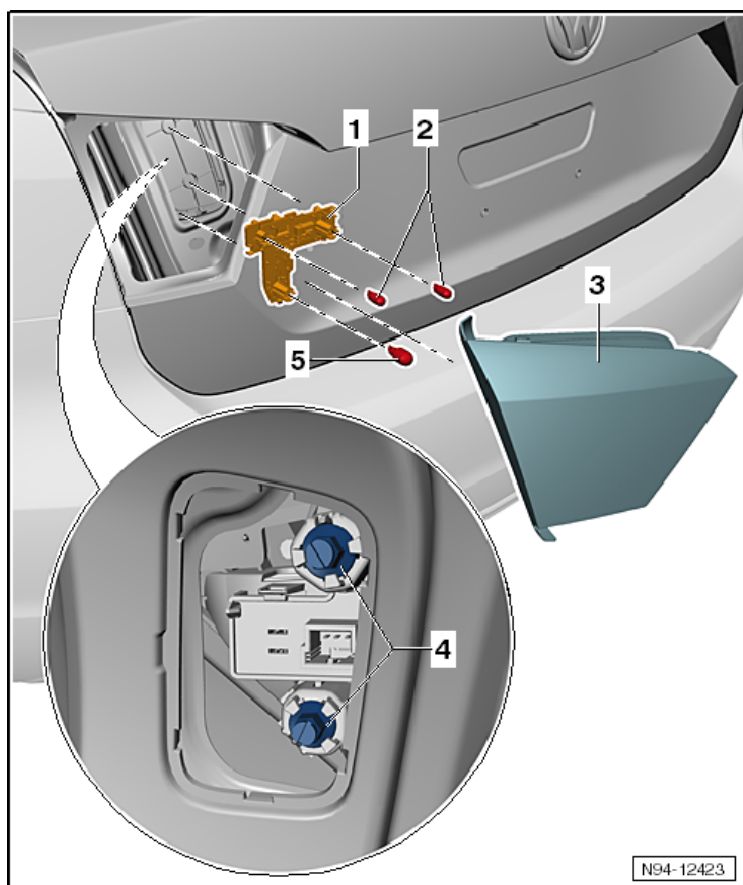
☐ 5 Nm

12 - Banjo Bolt

13 - Headlamp

**14 - Left Daytime Running Lamp -L174- / Right Daytime Running Lamp
-L175-**

Rear Lid Tail Lamps Overview



1 - Bulb Holder

2 - Left Tail Lamp Bulb 2 -M49- and Right Tail Lamp Bulb 2 -M50-

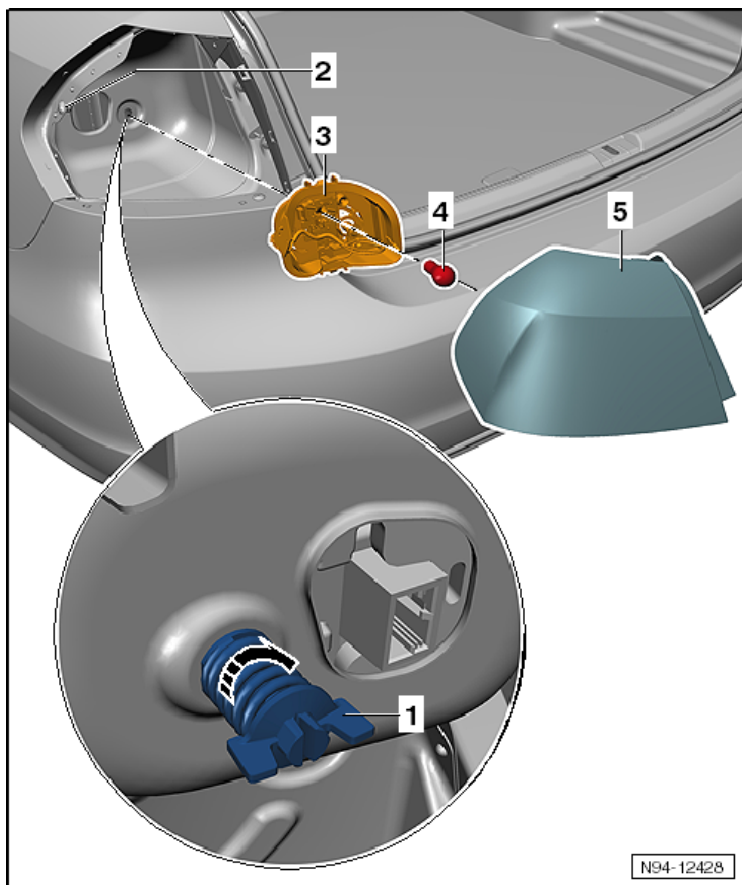
3 - Tail Lamp Housing

4 - Screws

□ 3.5 Nm

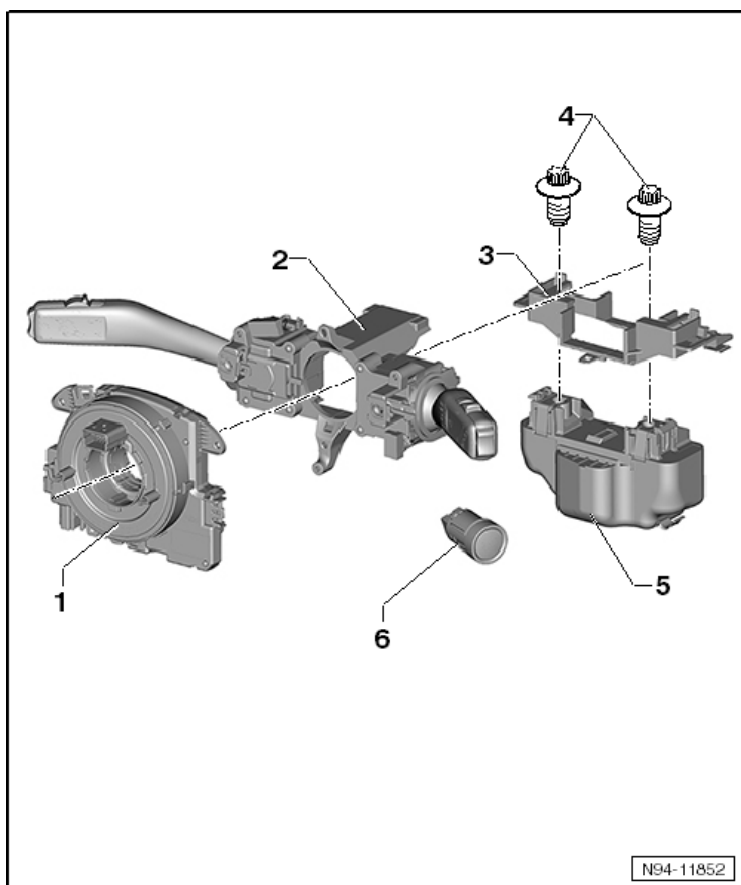
5 - Left Back-Up Light -M16- and Right Back-Up Light -M17-

Side Panel Tail Lamps Overview



- 1 - Tail Lamp Housing Bolt
 - 2 Nm
- 2 - Guide on Side Panel
- 3 - Bulb Holder
- 4 - Bulb, 12V, PY21W
- 5 - Tail Lamps In Side Panel

Steering Column Switch, with KESSY Overview



1 - Steering Column Electronic Systems Control Module -J527-

□ 1.5 Nm

2 - Steering Column Combination Switch -E595-

3 - Base Carrier For Steering Column Switches

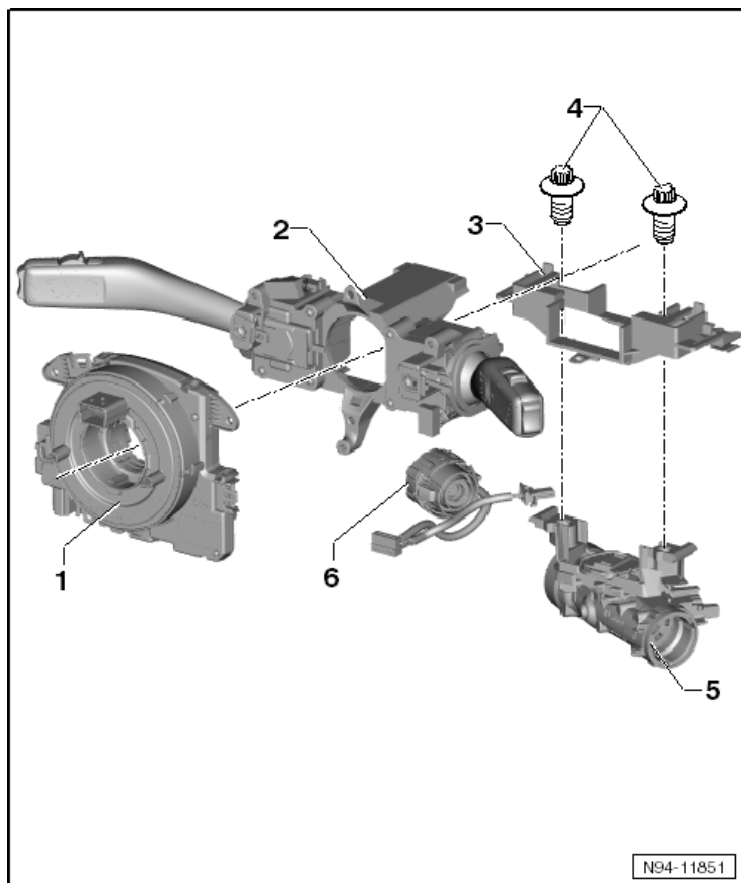
4 - Shear Bolts

□ 15 Nm

5 - Electronic Steering Column Lock Control Module -J764-

6 - Start System Button -E378-

Steering Column Switch, without KESSY Overview



1 - Steering Column Electronic Systems Control Module -J527-

□ 1.5 Nm

2 - Steering Column Combination Switch -E595-

3 - Base Carrier For Steering Column Switches

4 - Shear Bolts

□ 15 Nm

5 - Steering Lock Housing

6 - Ignition Switch and Lock Cylinder

Electrical
System

Inter Lights, Switches Tightening Specifications

Component	Nm
Signal horn and dual tone horn	20

Wiring Tightening Specification

Fasteners	Fastener size	Nm
Driver footwell fuse panel	-	1.5
left e-box in the engine compartment nuts	M6	9
Relay and fuse panels inside luggage compartment on left side bolt	-	3
Wire connector nuts for the Generator -C- and the Battery -A-.	-	15