



## Repair Manual All 2016 ➤

### Fluid Capacity Tables

Edition 09.2015





## List of Workshop Manual Repair Groups

### Repair Group

03 - Maintenance, Diagnosis



Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.



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## 03 – Maintenance, Diagnosis

### 1 CC

(Edition 09.2015)



#### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
2.0T Engine (CCTA/CBFA)			
	Oil and Filter Change	4.7 L (4.9 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
3.6 L Engine (CNNA)			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 502 00
	Coolant	9.0 L (9.5 qt.)	G 13 (TL-VW 774 J)
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 171 A2
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
6 Speed Automatic Transmission 09M			
	Initial Fill	7.0 L (7.4 qt.)	G 055 025 A2
	Bevel Box	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive	0.95 L (1.0 qt.)	
	Haldex Clutch Initial	0.85 (0.9 qt.)	G 060 175 A2
	Haldex Clutch Refill	0.7 L (0.7 qt.)	
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant	550 ± 5 g (19.4 ± 0.2 oz.)	See ETKA
	PAG Oil, Sanden	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2



Component/System		Capacity	Part Number/ Specification
	PAG Oil, Zexel	120 ± 15 cc (4.0 ± 0.5 fl. oz.)	G 052 200 A2
	PAG Oil, Denso	140 ± 10 cc (4.7 ± 0.3 fl. oz.)	G 052 300 A2
	PAG Oil, Delphi	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2 or G 052 300 A2
Window/Headlamp Washer System			
	With out head- lamp washer	3.0L (3.1 qt.)	G 052 164

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## 2 Tiguan



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
2.0T Engine (CCTA)			
	Oil and Filter Change	4.7 L (4.9 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
6 Speed Automatic Transmission 09M			
	Initial Fill	7.0 L (7.4 qt.)	G 055 025 A2
	Bevel Box	0.9 L (1.0 qt.)	G 052 145 S2
	Rear Final Drive	0.95 L (1.0 qt.)	G 055 175 A2
	Haldex Clutch Initial Fill	0.85 L (0.9 qt.)	
	Haldex Clutch Refill	0.7 L (0.7 qt.)	
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant	660 ± 15 g (23.3 ± 0.5 oz.)	See ETKA
	PAG Oil, Sanden	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil, Denso	140 ± 10 cc (4.7 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	-	3.0 L (3.1 qt.)	G 052 164



### 3 Passat



#### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.8 L Engine			
	Oil and Filter Change	5.5 L (5.7 qt.)	VW 502 00
	Coolant	10.0L (10.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine CVCA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 507 00
	Coolant	8.0 L (8.45 qt.)	G 13 (TL-VW 774 J)
3.6 L Engine			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 502 00
	Coolant	9.0 L (9.5 qt.)	G 13 (TL-VW 774 J)
5 Speed Manual Transmission 0A4			
	Initial Fill	1.9 L (2.0 qt.)	G 052 512 A2
	Refill	1.7 L (1.8 qt.)	
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 171 A2
6 Speed Automatic Transmission 09G			
	Initial Fill	7.0 L (7.4 qt.)	G 055 025 A2
	Refill	3.0 L (3.1 qt.)	
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
AdBlue® Tank			
	-	18.5 L (19.5 qt.)	G 052 910 A2 or GUS 052 910 A3
Brake System			
	Initial Fill	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant	575 ± 5 g (20.3 ± 0.2 oz.)	See ETKA





Component/System		Capacity	Part Number/ Specification
	PAG Oil, Sanden	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 200 A2
Window/Headlamp Washer System			
	With out headlamp washer	3.0 L (3.2 qt.)	G 052 164
	With headlamp washer	4.5 L (4.7 qt.)	

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## 4 Touareg



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
3.0 L TDI Engine (CNRB)			
	Oil and Filter Change	7.7 L (8.1 qt.)	VW 507 00
	Coolant	10.0 L (10.5 qt.)	G 13 (TL-VW 774 J)
3.6 L Engine (CGRA)			
	Oil and Filter Change	6.7 L (7.1 qt.)	VW 502 00
	Coolant	15.0 L (15.8 qt.)	G 13 (TL-VW 774 J)
8 Speed Automatic Transmission 0C8			
	Initial Fill - Dependant on engine type	10.4 L - 12.8 L (11.0 qt. - 13.5 qt.)	G 055 540 A2
	Front Final Drive	0.8 L (0.8 qt.)	G 052 145 A2
	Transfer Case Initial Fill (0BV)	0.85 L (0.9 qt.)	G 052 515 A2
	Transfer Case Initial Fill (0BU)	0.6 L (0.6 qt.)	
	Rear Final Drive, with EDL	1.25 L (1.3 qt.)	G 052 196 A2
	Rear Final Drive, without EDL	0.9 L (0.95 qt.)	
AdBlue® Tank			
	-	20.0 L (21.0 qt.)	G 052 910 A2 or GUS 052 910 A3
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant, One Evaporator	850 ± 50 g (30 ± 1.8 oz.)	See ETKA
	Refrigerant, Two Evaporators	1100 ± 50 g (39 ± 1.8 oz.)	See ETKA
	PAG Oil	140 ± 10 cc (4.7 ± 0.3 fl. oz.)	G 052 300 A2



Component/System		Capacity	Part Number/ Specification
Window/Headlamp Washer System			
	With out head-lamp washer	4.5 L (4.8 qt.)	G 052 164
	With headlamp washer	7.5 L (8.0 qt.)	

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## 5 Eos



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
2.0T Engine			
	Oil and Filter Change	4.7 L (4.9 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
	Frt. Final Drive	0.9 L (1.0 qt.)	G 052 145
Brake System			
	-	1.0 L (1.1 qt.)	B 000 750
A/C System			
	Refrigerant	525 ± 25 g (18.5 ± 0.9 oz.)	See ETKA
	PAG Oil, Sanden	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil, Zexel	120 ± 15 cc (4.0 ± 0.5 fl. oz.)	G 052 200 A2
	PAG Oil, Denso	140 ± 10 cc (4.7 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	With out headlamp washer	3.0-4.0 L (3.1-4.2 qt.)	G 052 164
	With headlamp washer	3.0-6.0 L (3.1-6.3 qt.)	



## 6 Golf/GTI



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/ Specification
1.8 L Engine (CXBA,CXBB)			
	Oil and Filter Change	5.5 L (5.7 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine (DEJA)			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 507 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0T Engine (CXCA,CXCB)			
	Oil and Filter Change	5.7 L (6.0 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
5 Speed Manual Transmission 0A4			
	Initial Fill	1.9 L (2.0 qt.)	G 052 512 A2
	Refill	1.7 L (1.8 qt.)	
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 512 A2
6 Speed Automatic Transmission 09G			
	Initial Fill	7.0 L (7.4 qt.)	G 055 025 A2
	Refill	3.0 L (3.1 qt.)	
6 Speed Direct Shift Gearbox 09D			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
AdBlue® Tank			
	-	15.4 L (4.0 gal.)	G 052 910 A2 or GUS 052 910 A3
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			



Component/System		Capacity	Part Number/ Specification
	Refrigerant	500 ± 15 g (17.6 ± 0.5 oz.)	See ETKA
	PAG Oil, Sanden	75 ± 10 cc (2.5 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil, Delphi	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2 G 052 300 A2
Window/Headlamp Washer System			
	-	3.0-5.0 L (3.1-5.2 qt.)	G 052 164

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## 7 Golf Sportwagen



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.8 L Engine (CXBA,CXBB)			
	Oil and Filter Change	5.7 L (6.0 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine (DEJA)			
	Oil and Filter Change	5.7 L (6.0 qt.)	VW 507 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
5 Speed Manual Transmission 0A4			
	Initial Fill	1.9 L (2.0 qt.)	G 052 512 A2
	Refill	1.7 L (1.8 qt.)	
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 527 A2
6 Speed Automatic Transmission 09G			
	Initial Fill	7.0 L (7.4 qt.)	G 055 540 A2
	Refill	3.0 L (3.1 qt.)	
6 Speed Direct Shift Gearbox 09D			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
AdBlue® Tank			
	-	15.4 L (4.0 gal.)	G 052 910 A2 or GUS 052-910 A3
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant	500 ± 15 g (17.6 ± 0.5 oz.)	See ETKA
	PAG Oil, Sanden	75 ± 10 cc (2.5 ± 0.3 fl. oz.)	G 052 154 A2



Component/System		Capacity	Part Number/ Specification
	PAG Oil, Delphi	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2 G 052 300 A2
Window/Headlamp Washer System			
	-	3.0-5.0 L (3.1-5.2 qt.)	G 052 164

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## 8 Golf R



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/ Specification
2.0T Engine (CYFB)			
	Oil and Filter Change	5.7 L (6.0 qt.)	VW 502 00
	Coolant	10.0 L (10.5 qt.)	G 13 (TL-VW 774 J)
6 Speed Direct Shift Gearbox 09D			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
Brake System			
	-	1.2 L (1.3 qt.)	B 000 750
A/C System			
	Refrigerant	500 ± 15 g (17.6 ± 0.5 oz.)	See ETKA
	PAG Oil, Sanden	75 ± 10 cc (2.5 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil, Delphi	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2 G 052 300 A2
Window/Headlamp Washer System			
	-r	3.0-5.0 L (3.1-5.2 qt.)	G 052 164



## 9 e-Golf



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System	Capacity	Part Number/Specification
115 h.p. Electric Motor		
Coolant with heat pump	5.3 L (5.6 qt.)	G 13 (TL-VW 774 J)
Coolant non heat pump	5.5 L (5.8 qt.)	G 13 (TL-VW 774 J)
Single Gear (0CZA)		
Initial Fill	1.0 L (1.0 qt.)	G 052 527 A2
Refill	0.8 L (0.84 qt.)	
Brake System		
-	1.2 L (1.3 qt.)	B 000 750
A/C System		
Refrigerant with heat pump	950 ± 15 g (33.5 ± 0.5 oz.)	See ETKA
Refrigerant non heat pump	500 ± 15 g (17.6 ± 0.5 oz.)	
PAG Oil, Visteon with heat pump	250 ± 10 cc (8.45 ± 0.3 fl. oz.)	G 052 535 M2
PAG Oil, Visteon non heat pump	120 ± 10 cc (4.05 ± 0.3 fl. oz.)	
Window Washer System		
-	3.0-5.0 L (3.1-5.2 qt.)	G 052 164

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## 10 Jetta Hybrid



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.4 L Engine (CNLA)			
	Oil and Filter Change	4.0 L (4.2 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
7 Speed Direct Shift Gearbox 0CG			
	Initial Fill	2.1 L (2.2 qt.)	G 052 512 A2
	Hydraulic for mechatronic J743	1.0 L (1.0 qt.)	
	Bevel Box	0.9 L (1.0 qt.)	G 052 145 S2
A/C System			
	Refrigerant, Gasoline Engines	525 ± 25 g (18.5 ± 0.9 oz.)	See ETKA
	PAG Oil	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
	With out head-lamp washer	3.0-4.0 L (3.1-4.2 qt.)	G 052 164

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## 11 Jetta/GLI



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.4 L CZTA			
	Oil and Filter Change	4.0 L (4.2 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
1.8 L CPKA/CPRA			
	Oil and Filter Change	5.5 L (5.7 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine DELA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 507 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0L CPLA/CPPA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
5 Speed Manual Transmission 0A4			
	Initial Fill	1.9 L (2.0 qt.)	G 052 527 A2
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 171 A2
6 Speed Automatic Transmission 09G			
	Initial Fill - Gen 1	7.0 L (7.4 qt.)	G 055 025 A2
	Initial Fill - Gen 2	6.1 L (6.4 qt.)	G 055 540 A2
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	7.2 L (7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
AdBlue® Tank			
	-	14.4 L (3.8 gal.)	G 052 910 A2 or GUS 052 910 A3



Component/System		Capacity	Part Number/ Specification
A/C System			
	Refrigerant	525 ± 25 g (18.5 ± 0.9 oz.)	See ETKA
	PAG Oil	110 ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 200 A2
Window/Headlamp Washer System			
	-	3.0 - 4.0 L (3.1 - 4.2 qt.)	G 052 164*

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## 12 Beetle



### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

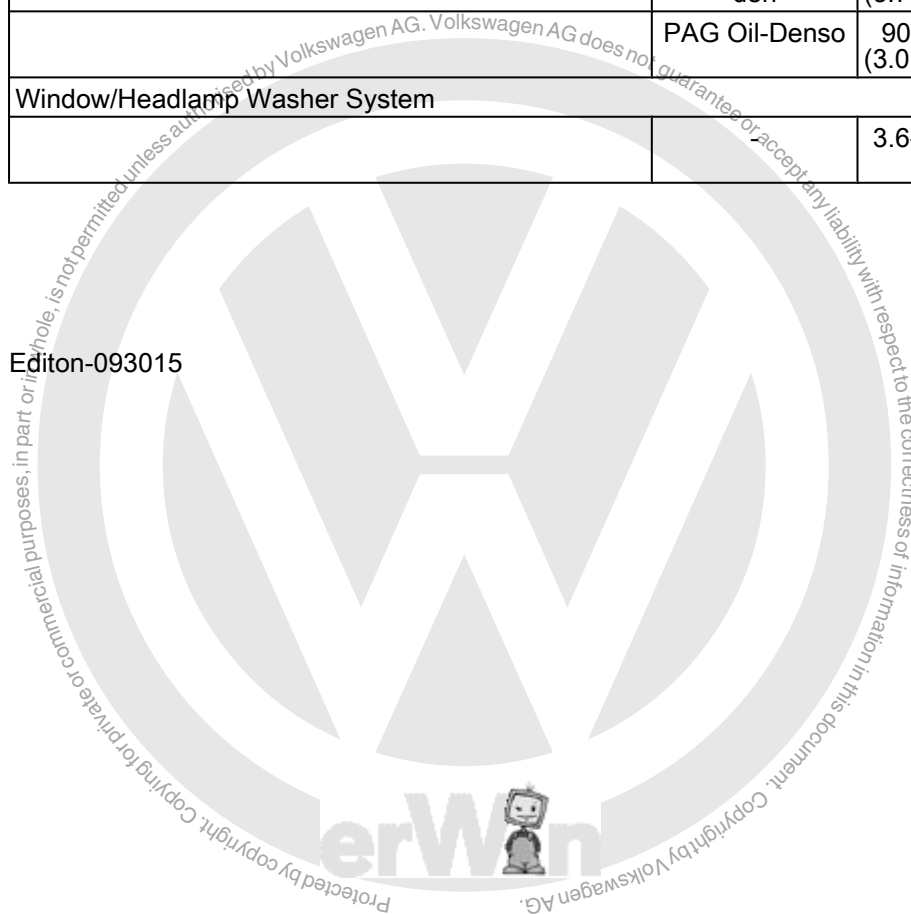
*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.8L CPKA/CPRA			
	Oil and Filter Change	5.5 L (5.7 qt.)	VW 502 00
	Coolant	8.0L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine DELA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 507 00
	Coolant	8.0 L (8.45 qt.)	G 13 (TL-VW 774 J)
2.0L CPLA/CPPA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
5 Speed Manual Transmission 0A4			
	Initial Fill	1.9 L (2.0 qt.)	G 052 527 A2
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 527 A2
6 Speed Automatic Transmission 09G			
	Initial Fill	7.0 L (7.4 qt.)	G 055 540 A2
	Refill	3.0 L (3.2 qt.)	
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
AdBlue® Tank			
	-	14.7 L (3.8 gal.)	G 052 910 A2 or GUS 052 910 A3
A/C System			
	Refrigerant	525 ± 25g (18.5 ± 0.8 oz.)	See ETKA



Component/System		Capacity	Part Number/ Specification
	PAG Oil-Sanden	110 cc ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil-Denso	90 cc ± 10 cc (3.0 ± 0.3 fl. oz.)	G 052 300 A2
Window/Headlamp Washer System			
		3.6-4.5 L (3.8 - 4.7 qt.)	G 052 164

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## 13 Beetle Convertible




### Caution

*All quantities are approximate. Always refer to the Repair Manual and/or the Maintenance Procedures for correct filling instructions.*

*Refer to Technical Bulletin 2012855 for engine oils meeting the required VW oil specifications.*

*Part numbers are for reference only. Always check with your parts department for the latest information.*

Component/System		Capacity	Part Number/Specification
1.8L CPKA/CPRA			
	Oil and Filter Change	5.5 L (5.7 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
2.0 L TDI Engine DELA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 507 00
	Coolant	8.0 L (8.45 qt.)	G 13 (TL-VW 774 J)
2.0L CPLA/CPPA			
	Oil and Filter Change	5.5 L (5.8 qt.)	VW 502 00
	Coolant	8.0 L (8.5 qt.)	G 13 (TL-VW 774 J)
6 Speed Manual Transmission 02Q			
	Initial Fill	2.3 L (2.4 qt.)	G 052 527 A2
6 Speed Automatic Transmission 09G			
	Initial Fill	7.0 L (7.4 qt.)	G 055 540 A2
	Refill	3.0 L (3.2 qt.)	
6 Speed Direct Shift Gearbox 02E			
	Initial Fill	6.9 - 7.2 L (7.3 - 7.6 qt.)	G 052 182 A2
	Refill	5.2 L (5.5 qt.)	
	Mechatronic Only	3-4 L (3.1-4.2 qt.)	
AdBlue® Tank			
	-	14.7 L (3.8 gal.)	G 052 910 A2 or GUS 052 910 A3
A/C System			
	Refrigerant	525 ± 25g (18.5 ± 0.8 oz.)	See ETKA
	PAG Oil-Sanden	110 cc ± 10 cc (3.7 ± 0.3 fl. oz.)	G 052 154 A2
	PAG Oil-Denso	90 cc ± 10 cc (3.0 ± 0.3 fl. oz.)	G 052 300 A2






Component/System		Capacity	Part Number/ Specification
Window/Headlamp Washer System			
	-	3.6-4.2 L (3.8 - 4.7 qt.)	G 052 164

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# Cautions & Warnings

**Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.**

- 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 Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices.  Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. 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 re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

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- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty 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 the oily rags, which can ignite and burn spontaneously.
- 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 listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- 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. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service 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.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.



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- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- 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.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

**I have read and I understand these Cautions and Warnings.**