



FLUID CAPACITY CHART



MY / VEHICLE	ENGINE OIL ^[1]	MANUAL TRANS. ^[2]	AUTOMATIC TRANS. ^[3]	DIFFERENTIAL AUTOMATIC TRANS. ^[4]	COOLING SYSTEM ^[5]	POWER STEERING ^[6]	WINDSHIELD WASHER ^[7]	A/C REFRIGERANT R-134a ^[8]	A/C REFRIGERANT OIL ^[9]
Jetta/Golf Jetta Wagon 2002	w/filter change 1.8T(AWP) 1.8T (AWW) 4.4L (4.6 qt) 1.9 (ALH) 4.5L (4.8 qt) 2.0 (AVH) 2.0 (AZG) 4.2L (4.4 qt) 2.8 (AFP) 5.8L (6.1 qt)	02J 2.0L (2.1 qt) 02M 2.3L (2.4 qt)	01M New fill: 5.3L (5.6 qt) Refill: approx. 3.0L (3.2 qt) 09A New fill: 7.0 L (7.4 qt)	New fill: 0.75L (0.80 qt)	1.8 T (AWP) 1.8 T (AWW) 5.0L (5.3 qt) 1.9 (ALH) 6.0L (6.3 qt) 2.0 (AZG) 2.0 (AVH) 5.0L (5.3 qt) 2.8 (AFP) 9.0L (9.5 qt)	0.7-0.9L (0.74-0.95 qt)	3.0 L (3.2 qt)	750+50 g (26+1.8 oz)	135±15 cc (4.6± 0.5 fl. oz)

^[1] **ENGINE OIL: Approximate quantities!** Gasoline engines: Use API SERVICE SL, VW 502 00, VW 500 00, VW 501 01, ACEA A2, or ACEA A3. Diesel engines: Use API SERVICE CF4, API SERVICE CG4, VW 505 00, ACEA B3, or ACEA B4. Do not overfill! Overfilling engine oil can cause misfire DTC's to be stored in Engine Control Module (ECM) -J220-. To prevent overfilling, add approx. 0.5L less than capacity, start engine and let run until engine operating temperature is approx. 60°C (140°F), turn OFF ignition, wait approx. 3 minutes, check dipstick, then fill to MAX. See Repair Manual for details. **TDI only:** After changing oil and filter, start and run engine at idle until oil pressure light goes out. DO NOT rev engine, as this could cause damage to, or failure of, the turbocharger.

^[2] **MANUAL TRANS:** Use synthetic oil, SAE 75W90, Part No. G 005 000, and G51 for 02M.

^[3] **AUTOMATIC TRANS:** Use VW ATF, Part No. G 052 162 A2 for 01M trans, G 052 990 A2 for 09A trans.. Life-time filling, new fill quantity is for reference only. Only replace after repair (i.e. when removing oil pan). See Repair Manual for details.

^[4] **DIFFERENTIAL AUTOMATIC TRANS:** Use synthetic gear oil, SAE 75W90, Part No. G 052 145 S2 . Life-time filling, new fill quantity is for reference only. Only replace after repair. See Repair Manual for details.

^[5] **COOLING SYSTEM:** Use only phosphate-free coolant G 12. **DO NOT INTERCHANGE OR MIX** older G11 with G 12. This can result in serious damage to the engine. Frost protection is required down to approximately -25°C (-13°F). In countries with arctic climates, frost protection is required down to approximately -35°C (-31°F). The anti-freeze ratio must be a minimum of 40%, as otherwise frost protection is reduced. The recommended mixture ratio is 50:50. If greater frost protection is required (very cold climates), the amount of G12 can be increased, but only up to 60%. This provides frost protection to approx. -40°C (-40°F). Do not reduce the coolant concentration by adding water, even in warmer seasons and in warmer countries, as cooling effectiveness will be reduced.

^[6] **POWER STEERING:** Hydraulic oil G 002 012. Do not use ATF.

^[7] **WINDSHIELD WASHER:** Concentrated ZVW 177 901/903/904/906. Windshield container also serves for rear washer in Jetta Wagon.

^[8] **A/C REFRIGERANT:** Use R-134a

^[9] **A/C REFRIGERANT OIL:** Use PAG oil, Part No. G 052 154 A2 w/ Sandon compressor, (G052 300AZ, or G 052 154.A2w/Zexel compressor) with R-134a.

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New Beetle 2002	w/filter change 1.8T (AWV) 4.5L (4.8 qt) 1.9 (ALH) 4.5L (4.8 qt) 2.0 (AVH) 2.0 (AZG) 4.2L (4.4 qt)	02J 2.0L (2.1 qt) 02M 2.3L (2.4 qt)	01M New fill: 5.3L (5.6 qt) Refill: approx. 3.0L (3.2 qt)	New fill: 0.75L (0.80 qt)	1.8T (AWV) 5.0L (5.3 qt) 1.9 (ALH) 6.0L (6.3 qt) 2.0 (AVH) 2.0 (AZG) 5.0L (5.3 qt)	0.7-0.9 L (0.74-0.95 qt)	2.0L (2.1 qt)	700+50 g (24.7+1.8 oz)	135 cc (4.6± 0.5 fl. oz)

^[1] **ENGINE OIL: Approximate quantities!** Gasoline engines: Use API SERVICE SL, VW 502 00, VW 500 00, VW 501 01, ACEA A2, or ACEA A3. Diesel engines: Use API SERVICE CF4, API SERVICE CG4, VW 505 00, ACEA B3, or ACEA B4. Do not overfill! Overfilling engine oil can cause misfire DTC's to be stored in Engine Control Module (ECM) -J220-. To prevent overfilling, add approx. 0.5L less than capacity, start engine and let run until engine operating temperature is approx. 60°C (140°F), turn OFF ignition, wait approx. 3 minutes, check dipstick, then fill to MAX. See Repair Manual for details. **TDI only:** After changing oil and filter, start and run engine at idle until oil pressure light goes out. DO NOT rev engine, as this could cause damage to, or failure of, the turbocharger.

^[2] **MANUAL TRANS:** Use synthetic oil, SAE 75W90, Part No. G 005 000, and G 51 for 02M

^[3] **AUTOMATIC TRANS:** Use VW ATF, Part No. G 052 162 A2(1 liter container). Life-time filling, new fill quantity is for reference only. Only replace after repair (i.e. when removing oil pan). See Repair Manual for details.

^[4] **DIFFERENTIAL AUTOMATIC TRANS:** Use synthetic gear oil, SAE 75W90, Part No. G 052 145 S2. Life-time filling, new fill quantity is for reference only. Only replace after repair. See Repair Manual for details.

^[5] **COOLING SYSTEM:** Use only phosphate-free coolant G 12. **DO NOT INTERCHANGE OR MIX** older G 11 with G12. This can result in serious damage to the engine. Frost protection is required down to approximately -25°C (-13°F). In countries with arctic climates, frost protection is required down to approximately -35°C (-31°F). The anti-freeze ratio must be a minimum of 40%, as otherwise frost protection is reduced. The recommended mixture ratio is 50:50. If greater frost protection is required (very cold climates), the amount of G12 can be increased, but only up to 60%. This provides frost protection to approx. -40°C (-40°F). Do not reduce the coolant concentration by adding water, even in warmer seasons and in warmer countries, as cooling effectiveness will be reduced.

^[6] **POWER STEERING:** Hydraulic oil G 002 012. Do not use ATF.

^[7] **WINDSHIELD WASHER:** Concentrated ZVW 177 901/903/904/906.

^[8] **A/C REFRIGERANT:** Use R-134a.

^[9] **A/C REFRIGERANT OIL:** Use PAG oil, Part No. G 052 154 A2 w/Sandon compressor.

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Passat 2002	w/filter change 2.8 (AWM) 2.8 (ATQ) 6.2L (6.5 qt)	012 2.25L (2.4 qt)	01V New fill: 9.0L (9.5 qt) Refill: approx. 2.6-3.0L (2.7-3.2 qt)	01V Front final drive New fill: 0.75L (0.80 qt) 01V (all-wheel drive) Transfer gearbox New fill: 0.8L (0.85 qt) 01R Rear final drive New fill: 1.5L (1.6 qt)	2.8 (AWM) 2.8 (ATQ) 4.0 (BDP) 8.0L (8.5 qt)	0.7-0.9L (0.74-0.95 qt)	6.2L (6.6 qt)	Denso 600+25 g (21+0.9 oz) W8 Only 500 +25 g (17.6 + 0.9 oz)	250 cc (8.5 fl. oz) W8 Only 200 cc ± 10 cc (6.76 ± .34 fl. oz)
W8	4.0(BDP) 8.5L(9.0 qt)								

[1] ENGINE OIL: **Approximate quantities!** Use API SERVICE SL, VW 502 00, VW 500 00, VW 501 01, ACEA A2, or ACEA A3. **W8 Only:** ACEA A3 specification: SAE 5W40, SAE 10W40, SAE15W50, VW 502 00, VW 503 01, VW 505 01, or for topping up only, ILSAC GF3 SAE 5W30. Do not overfill! Overfilling engine oil can cause misfire DTC's to be stored in Engine Control Module (ECM) -J220-. To prevent overfilling, add approx. 0.5L less than capacity, start engine and let run until engine operating temperature is approx. 60°C (140°F), turn OFF ignition, wait approx. 3 minutes, check dipstick, then fill to MAX. See Repair Manual for details.

[2] MANUAL TRANS: Use synthetic oil, SAE 75W90, Part No. G 052 911 A1

[3] AUTOMATIC TRANS: Use VW ATF, Part No. G 052 162 A2(1 liter container). Life-time filling, new fill quantity is for reference only. Only replace after repair (i.e. when removing oil pan). See Repair Manual for details.

[4] DIFFERENTIAL AUTOMATIC TRANS: Use synthetic gear oil, SAE 75W90, Part No. G 052 145 S2. Life-time filling, new fill quantities are for reference only. Only replace after repair. See Repair Manual for details.

[5] COOLING SYSTEM: Use only phosphate free coolant G 12. **W8 Only,** Use G12 Plus (**violet colored**), mixable with G12 (pink colored). **DO NOT INTERCHANGE OR MIX** older G 11 with G 12 or G12 Plus. This can result in serious damage to the engine. Frost protection is required down to approximately -25°C (-13°F). In countries with arctic climates, frost protection is required down to approximately -35°C (-31°F). The anti-freeze ratio must be a minimum of 40%, as otherwise frost protection is reduced. The recommended mixture ratio is 50:50. If greater frost protection is required (very cold climates), the amount of G 12 can be increased, but only up to 60%. This provides frost protection to approx. -40°C (-40°F). Do not reduce the coolant concentration by adding water, even in warmer seasons and in warmer countries, as cooling effectiveness will be reduced.

[6] POWER STEERING: Hydraulic oil G 002 000. Do not use ATF.

[7] WINDSHIELD WASHER: Concentrated ZVW 177 901/903/904/906, Windshield washer container also serves for rear washer on Wagon.

[8] A/C REFRIGERANT: Use R-134a.

[9] A/C REFRIGERANT OIL: Use PAG oil with R-134a. For Denso compressor, use Part No. G 052 300 A2.

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Cabrio 2002	w/filter change 2.0 (ABA) 4.0L (4.2 qt)	020 1.9L (2.0 qt)	01M New fill: 5.3L (5.6 qt) Refill: approx. 3.0L (3.2 qt)	New fill: 0.75L (0.80 qt)	2.0 (ABA) 5.0L (5.3 qt)	0.7-0.9L (0.74-0.95qt)	3.0L (3.2 qt)	800+50 g (28.2+1.8 oz)	115±15 cc (3.9±0.5 fl. oz)

¹ENGINE OIL: **Approximate quantities!** Use API SERVICE SL, VW 502 00, VW 500 00, VW 501 01, ACEA A2, or ACEA A3. Do not overfill! Overfilling engine oil can cause misfire DTC's to be stored in Engine Control Module (ECM) -J220-. To prevent overfilling, add approx. 0.5L less than capacity, start engine and let run until engine operating temperature is approx. 60°C (140°F), turn OFF ignition, wait approx. 3 minutes, check dipstick, then fill to MAX. See Repair Manual for details.

²MANUAL TRANS: Use synthetic oil, SAE 75W90, Part No. G 005 000.

³AUTOMATIC TRANS: Use VW ATF, Part No. G 052 162 A2(1 liter container). Life-time filling, new fill quantity is for reference only. Only replace after repair (i.e. when removing oil pan). See Repair Manual for details.

⁴DIFFERENTIAL AUTOMATIC TRANS: Use synthetic gear oil, SAE 75W90, Part No. G 052 145 S2. Life-time filling, new fill quantity is for reference only. Only replace after repair. See Repair Manual for details.

⁵COOLING SYSTEM: Use only phosphate-free coolant G12. **DO NOT INTERCHANGE OR MIX** older G11 with G12. This can result in serious damage to the engine. Frost protection is required down to approximately -25°C (-13°F). In countries with arctic climates, frost protection is required down to approximately -35°C (-31°F). The anti-freeze ratio must be a minimum of 40%, as otherwise frost protection is reduced. The recommended mixture ratio is 50:50. If greater frost protection is required (very cold climates), the amount of G12 can be increased, but only up to 60%. This provides frost protection to approx. -40°C (-40°F). Do not reduce the coolant concentration by adding water, even in warmer seasons and in warmer countries, as cooling effectiveness will be reduced.

⁶POWER STEERING: Hydraulic oil G002 000. Do not use ATF.

⁷WINDSHIELD WASHER: Concentrated ZVW 177 901/903/904/906.

⁸A/C REFRIGERANT: Use R-134a.

⁹A/C REFRIGERANT OIL: Use PAG oil SP-10, Part No. G 052 154 A2 with R-134a.

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EuroVan 2002	w/filter change 2.8 (AXK) 6.2L (6.5 qt)	N/A	01P New fill: 5.35L (5.7qt) Refill: approx. 3.5L (3.7 qt)	New fill: 1.15L (1.22 qt)	2.8 (AXK) 1 heat ex: 9.0L (9.5 qt) 2 heat ex: 10.8L (11.4 qt) 2 heat ex. + water heater: 11.4L (12.0 qt)	approx. 1.0L (1.1 qt)	7.0L (7.4 qt)	1 evap: 950+50g (33.5+1.8 oz) 2 evap: 1350+50g (47.6+1.8 oz.) 2 evap, long w/b: 1400+50g (49+1.8 oz.)	1 evap: 135 cc (4.6 fl. oz) 2 evap: 135+105cc=240 cc (8.1 fl. oz)

¹ENGINE OIL: **Approximate quantities!** Use API SERVICE SL, VW 502 00, VW 500 00, VW 501 01, ACEA A2, or ACEA A3. Do not overfill! Overfilling engine oil can cause misfire DTC's to be stored in Engine Control Module (ECM) -J220-. To prevent overfilling, add approx. 0.5L less than capacity, start engine and let run until engine operating temperature is approx. 60°C (140°F), turn OFF ignition, wait approx. 3 minutes, check dipstick, then fill to MAX. See Repair Manual for details.

²AUTOMATIC TRANS: Use VW ATF, Part No. G 052 162 A2. Life-time filling, new fill quantity is for reference only. Only replace after repair (i.e. when removing oil pan). See Repair Manual for details.

³DIFFERENTIAL AUTOMATIC TRANS: Use synthetic gear oil, SAE 75W90, Part No. G 052 145 S2. Life-time filling, new fill quantity is for reference only. Only replace after repair. See Repair Manual for details.

⁴COOLING SYSTEM: Use only phosphate-free coolant G12. **DO NOT INTERCHANGE OR MIX** older G11 with G12. This can result in serious damage to the engine. Frost protection is required down to approximately -25°C (-13°F). In countries with arctic climates, frost protection is required down to approximately -35°C (-31°F). The anti-freeze ratio must be a minimum of 40%, as otherwise frost protection is reduced. The recommended mixture ratio is 50:50. If greater frost protection is required (very cold climates), the amount of G12 can be increased, but only up to 60%. This provides frost protection to approx. -40°C (-40°F). Do not reduce the coolant concentration by adding water, even in warmer seasons and in warmer countries, as cooling effectiveness will be reduced.

⁵POWER STEERING: Hydraulic oil G002 000 / G002 012. Do not use ATF.

⁶WINDSHIELD WASHER: Concentrated ZVW 177 901/903/904/906.

⁷A/C REFRIGERANT: Use R-134a.

⁸A/C REFRIGERANT OIL: Use PAG oil, Part No. G 052 154 A2 with R-134a.

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