



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 2001	w/filter change 1.8T (AWD) 1.8T (AWW) 4.4L (4.6 qt) 1.9 (ALH) 4.5L (4.8 qt) 2.0 (AEG) 2.0 (AVH) 2.0 (AZG) 4.2L (4.4 qt) 2.8 (AFP) 5.8L (6.1 qt)	02J 02A 2.0L (2.1 qt)	01M New fill: 5.3L (5.6 qt) Refill: approx. 3.0L (3.2 qt)	New fill: 0.75L (0.80 qt)	1.8 T (AWD) 1.8 T (AWW) 5.0L (5.3 qt) 1.9 (ALH) 6.0L (6.3 qt) 2.0 (AEG) 2.0 (AVH) 2.0 (AZG) 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 SJ, 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.

[3] **AUTOMATIC 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.

[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 (G12). **DO NOT INTERCHANGE OR MIX** older G 011 A8 C with G 012 A8 D. 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 012 A8 D 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 G002 000 / G002 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 with R-134a.



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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]
New Beetle 2001	w/filter change 1.8T (APH) 1.8T (AWV) 4.5L (4.8 qt) 1.9 (ALH) 4.5L (4.8 qt) 2.0 (AEG) 2.0 (AVH) 2.0 (AZG) 4.2L (4.4 qt)	02J 2.0L (2.1 qt)	01M New fill: 5.3L (5.6 qt) Refill: approx. 3.0L (3.2 qt)	New fill: 0.75L (0.80 qt)	1.8 T (APH) 1.8T (AWV) 5.0L (5.3 qt) 1.9 (ALH) 6.0L (6.3 qt) 2.0 (AEG) 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 fl. oz)

^[1] **ENGINE OIL: Approximate quantities!** Gasoline engines: Use API SERVICE SJ, 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.

^[3] **AUTOMATIC 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.

^[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 (G12). **DO NOT INTERCHANGE OR MIX** older G 011 A8 C with G 012 A8 D. 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 012 A8 D 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 G002 000 / G002 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 with R-134a.



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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]
Passat 2001	w/filter change 1.8T (AWM) 1.8T (AUG) 1.8T (ATW) 3.7L (3.9 qt) 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) 01R (all-wheel drive) Transfer gearbox New fill: 0.8L (0.85 qt) Rear final drive New fill: 1.5L (1.6 qt)	1.8T (AWM) 1.8T (AUG) 1.8T (ATW) 7.0L (7.4 qt.) 2.8 (ATQ) 8.0L (8.5 qt)	0.7-0.9L (0.74-0.95 qt)	6.2L (6.6 qt)	Zexel or Denso (prod. to 10/00): 650+50 g (23+1.8 oz) Denso (prod. as of 10/00): 600+25 g (21+0.9 oz)	250 cc (8.5 fl. oz)

[1] ENGINE OIL: **Approximate quantities!** Use API SERVICE SJ, 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.

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

[3] AUTOMATIC 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.

[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 (G12). **DO NOT INTERCHANGE OR MIX** older G 011 A8 C with G 012 A8 D. 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 012 A8 D 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 G002 000 / G002 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 with R-134a. For Denso compressor, use Part No. G 052 300 A2. For Zexel compressor, use Part No. G 052 154 A2 or G 052 200 A2.



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Cabrio 2001	w/filter change 2.0 (ABA) 4.0L (4.2 qt)	02J 02A 2.0L (2.1 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)

¹ ENGINE OIL: **Approximate quantities!** Use API SERVICE SJ, 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.

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

³ AUTOMATIC 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.

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 (G12). **DO NOT INTERCHANGE OR MIX** older G 011 A8 C with G 012 A8 D. 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 012 A8 D 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 G002 000 / G002 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 with R-134a.



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EuroVan 2001	w/filter change 2.8 (AES) 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 (AES) 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)

^[1] ENGINE OIL: **Approximate quantities!** Use API SERVICE SJ, 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.

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

^[3] AUTOMATIC 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.

^[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 (G12). **DO NOT INTERCHANGE OR MIX** older G 011 A8 C with G 012 A8 D. 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 012 A8 D 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 G002 000 / G002 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 with R-134a.