

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 1.8 ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 80.5
Stroke (mm): 88.2
Displacement (cc): 1796
Compression ratio: 10.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 2 overhead (DOHC), driven by toothed belt
Valve train: hydraulic bucket tappets
Valve, arrangement: v; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: sequential multi point fuel injection
Ignition system: electr. ignition map, ignition coil direct to spark plug
Fuel pump: electric, in tank
Emission control system: 3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min): 90/122 at 6000
Specific power (kW/l; hp/l): 50.1; 67.9
Max. torque (Nm at 1/min): 167 at 3800
Specific torque (Nm/liter): 93.0
Mean effective pressure at max. power/max. torque (kPa): 1002.2/1169.0
Average piston speed (m/s): 17.6
Engine oil, capacity (l): 4.25
Cooling capacity (l): 5.5
Battery 12 V, capacity (Ah): 55
Alternator 14.2 V, capacity (W): 1704

Transmission

Drive axle: front wheel drive
Transmission, type: manual
Gear ratios: 1st ratio: 3.73 2nd ratio: 2.14 3rd ratio: 1.41
4th ratio: 1.12 5th ratio: 0.89
reverse ratio: 3.31 final drive ratio: 3.94
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 - 91H
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1490/2025/535
Power to weight ratio (kg/kW; kg/hp)(empty): 16.6; 12.2
Max. axle load front/rear (kg): 970/1100
Trailer load braked/unbraked (kg): 1300/735
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 199
Acceleration 0-100 km/h (sec)*: 12.1
Acc. 80-120 km/h in 5th gear (sec)*: 16.4
Pass-by noise (dBA): 72
Fuel: unleaded premium 95 RON
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 11.0 - 11.1
extra-urban: 6.1 - 6.2
total: 7.9 - 8.0
CO₂ emission (g/km): 190 - 192
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 30,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine, location: front, transverse in front of axle, 17° 24' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 82
Stroke (mm): 90.4
Displacement (cc): 1910
Compression ratio: 18:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 1 overhead (OHC), driven by toothed belt
Valve train: direct, bucket tappets
Valve, arrangement: in line; 2 per cylinder
Valve adjustment: mechanical
Fuel system: diesel direct injection, common rail
Fuel pump: high pressure, mechanic
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation, DPF turbo with intercooler
Charger system: 88/120 at 3500
Output (kW/hp CEE at 1/min): 46.1; 62.8
Specific power (kW/l; hp/l): 280 at 2000
Max. torque (Nm at 1/min): 146.6
Specific torque (Nm/liter): 1579.7/1843.0
Mean effective pressure at max. power/max. torque (kPa): 10.5
Average piston speed (m/s): 4.3
Engine oil, capacity (l): 7.5
Cooling capacity (l): 70
Battery 12 V, capacity (Ah): 1420
Alternator 14.2 V, capacity (W):

Transmission

Drive axle: front wheel drive
Transmission, type: 6-speed manual
Gear ratios: 1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.32 4th ratio: 0.95 5th ratio: 0.76 6th ratio: 0.62 reverse ratio: 3.54 final drive ratio: 3.35
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1625/2160/535
Power to weight ratio (kg/kW; kg/hp)(empty): 18.5; 13.5
Max. axle load front/rear (kg): 1090/1100
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 195
Acceleration 0-100 km/h (sec)*: 12.2
Acc. 80-120 km/h in 5th gear (sec)*: 13.2
Pass-by noise (dBA): 73 (with DPF)
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 7.7 - 7.8
extra-urban: 5.0 - 5.1
total: 6.0 - 6.1
CO₂ emission (g/km): 162 - 165
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine, location: front, transverse in front of axle, 17° 24' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 82
Stroke (mm): 90.4
Displacement (cc): 1910
Compression ratio: 17.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminium
Camshaft(s), location: 2 overhead (DOHC), driven by toothed belt
Valve train: indirect, roller cam followers
Valve, arrangement: in line; 4 per cylinder
Valve adjustment: hydraulic
Fuel system: diesel direct injection, common rail
Fuel pump: high pressure, mechanic
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation, DPF turbo with intercooler
Charger system: Output (kW/hp CEE at 1/min): 110/150 at 4000
Specific power (kW/l; hp/l): 57.6; 78.5
Max. torque (Nm at 1/min): 320 at 2000
Specific torque (Nm/liter): 164.9
Mean effective pressure at max. power/max. torque (kPa): 1727.7/2073.4
Average piston speed (m/s): 12.1
Engine oil, capacity (l): 4.3
Cooling capacity (l): 7.5
Battery 12 V, capacity (Ah): 70
Alternator 14.2 V, capacity (W): 1420

Transmission

Drive axle: front wheel drive
Transmission, type: 6-speed manual
Gear ratios: 1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.32 4th ratio: 0.95 5th ratio: 0.7 6th ratio: 0.62 reverse ratio: 3.54 final drive ratio: 3.55
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1625/2160/535
Power to weight ratio (kg/kW; kg/hp)(empty): 14.8; 10.8
Max. axle load front/rear (kg): 1100/1100
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 212
Acceleration 0-100 km/h (sec)*: 10.5
Acc. 80-120 km/h in 5th gear (sec)*: 10.7
Pass-by noise (dBA): 73 (with DPF)
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 7.8 - 7.9
extra-urban: 5.1 - 5.2
total: 6.1 - 6.2
CO₂ emission (g/km): 165 - 167
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany

Vectra Caravan 1.9 CDTI 110kW/150hp 6-speed autom. station wagon 5 doors

Model year: 2005 ½
Date: 01/2005

Engine data

Engine, location: front, transverse in front of axle, 17° 24' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 82
Stroke (mm): 90.4
Displacement (cc): 1910
Compression ratio: 17.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 2 overhead (DOHC), driven by toothed belt
Valve train: indirect, roller cam followers
Valve, arrangement: in line; 4 per cylinder
Valve adjustment: hydraulic
Fuel system: diesel direct injection, common rail
Fuel pump: high pressure, mechanic
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler, with DPF
Charger system: 110/150 at 4000
Output (kW/hp CEE at 1/min): 57.6; 78.5
Specific power (kW/l; hp/l): 320 at 2000
Max. torque (Nm at 1/min): 167.5
Specific torque (Nm/liter): 1727.7/2106.3
Mean effective pressure at max. power/max. torque (kPa): 12.1
Average piston speed (m/s): 4.3
Engine oil, capacity (l): 7.5
Cooling capacity (l): 70
Battery 12 V, capacity (Ah): 1420
Alternator 14.2 V, capacity (W):

Transmission

Drive axle: front wheel drive
Transmission, type: automatic with ActiveSelect
Gear ratios: 1st ratio: 4.15 2nd ratio: 2.37 3rd ratio: 1.56
4th ratio: 1.16 5th ratio: 0.86 6th ratio: 0.69
reverse ratio: 3.39 final drive ratio: 2.67

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1633/2185/552
Power to weight ratio (kg/kW; kg/hp)(empty): 14.8; 10.9
Max. axle load front/rear (kg): 1100/1100
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 208
Acceleration 0-100 km/h (sec)*: 10.6
Pass-by noise (dBA): 70
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased consumption and CO₂ values.
urban: 9.7 - 9.8
extra-urban: 5.6 - 5.7
total: 7.1 - 7.2
CO₂ emission (g/km): 192 - 194
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.0 DTI ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 84
Stroke (mm): 90
Displacement (cc): 1995
Compression ratio: 18.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 1 overhead (SOHC), driven by double bush chain
Valve train: hydraulic bucket tappets
Valve, arrangement: parallel; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: diesel direct injection
Fuel pump: mechanical
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler

Charger system:
Max. boost pressure (bar): 1.0
Output (kW/hp CEE at 1/min): 74/100 at 3120
Specific power (kW/l; hp/l): 37.1; 50.1
Max. torque (Nm at 1/min): 230 at 1500
Specific torque (Nm/liter): 115.3
Mean effective pressure at max. power/max. torque (kPa): 1426.6/1449.4
Average piston speed (m/s): 9.4
Engine oil, capacity (l): 5.5
Cooling capacity (l): 7.6
Battery 12 V, capacity (Ah): 70
Alternator 14.2 V, capacity (W): 1988

Transmission

Drive axle: front wheel drive
Transmission, type: manual
Gear ratios: 1st ratio: 3.58 2nd ratio: 1.89 3rd ratio: 1.19
4th ratio: 0.85 5th ratio: 0.69
reverse ratio: 3.31 final drive ratio: 3.74

Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 - 91H
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1600/2135/535
Power to weight ratio (kg/kW; kg/hp)(empty): 21.6; 16.0
Max. axle load front/rear (kg): 1075/1100
Trailer load braked/unbraked (kg): 1400/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 186
Acceleration 0-100 km/h (sec)*: 13.9
Acc. 80-120 km/h in 5th gear (sec)*: 16.5
Pass-by noise (dBA): 71
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased consumption and CO₂ values.
urban: 7.9 - 8.0
extra-urban: 4.8 - 4.9
total: 5.9 - 6.0
CO₂ emission (g/km): 159 - 162
Emission class: Euro 3

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.0 Turbo ECOTEC
Engine, location: front, transverse in front of axle, 10° backward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 86
Stroke (mm): 86
Displacement (cc): 1998
Compression ratio: 9.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: aluminum/aluminum
Camshaft(s), location: 2 overhead (DOHC), driven by chain
Valve train: roller rocker with hydraulic bucket tappets
Valve, arrangement: v; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: sequential multi point fuel injection
Ignition system: electr. ignition map, ignition coil direct to spark plug
Fuel pump: electric, in tank
Emission control system: 3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min): 129/175 at 5500
Specific power (kW/l; hp/l): 64.6; 87.6
Max. torque (Nm at 1/min): 265 at 2500
Specific torque (Nm/liter): 132.6
Mean effective pressure at max. power/max. torque (kPa): 1408.7/1667.5
Average piston speed (m/s): 15.8
Engine oil, capacity (l): 6
Cooling capacity (l): 7.5
Battery 12 V, capacity (Ah): 66
Alternator 14.2 V, capacity (W): 1704

Transmission

Drive axle: front wheel drive
Transmission, type: 6-speed manual
Gear ratios: 1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.37
4th ratio: 1.04 5th ratio: 0.85 6th ratio: 0.71
reverse ratio: 3.54 final drive ratio: 3.91
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 302
Brakes rear, diameter (mm): ventilated disc, 292
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1585/2120/535
Power to weight ratio (kg/kW; kg/hp)(empty): 12.3; 9.1
Max. axle load front/rear (kg): 1050/1100
Trailer load braked/unbraked (kg): 1700/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 222
Acceleration 0-100 km/h (sec)*: 9.4
Acc. 80-120 km/h in 5th gear (sec)*: 10
Pass-by noise (dBa): 73
Fuel: unleaded premium
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 13.1 - 13.2
extra-urban: 6.9 - 7.0
total: 9.2 - 9.3
CO₂ emission (g/km): 221 - 223
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 30,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.2 DTI ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 84
Stroke (mm): 98
Displacement (cc): 2172
Compression ratio: 18.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 1 overhead (SOHC), driven by double bush chain
Valve train: hydraulic bucket tappets
Valve, arrangement: parallel; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: diesel direct injection
Fuel pump: mechanical
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler

Charger system:
Max. boost pressure (bar): 1.1
Output (kW/hp CEE at 1/min): 92/125 at 3250
Specific power (kW/l; hp/l): 42.4; 57.6
Max. torque (Nm at 1/min): 280 at 1500
Specific torque (Nm/liter): 128.9
Mean effective pressure at max. power/max. torque (kPa): 1563.10/1620.7
Average piston speed (m/s): 10.6
Engine oil, capacity (l): 5.5
Cooling capacity (l): 7.6
Battery 12 V, capacity (Ah): 70
Alternator 14.2 V, capacity (W): 1988

Transmission

Drive axle: front wheel drive
Transmission, type: manual
Gear ratios: 1st ratio: 3.58 2nd ratio: 1.88 3rd ratio: 1.18
4th ratio: 0.89 5th ratio: 0.66
reverse ratio: 3.43 final drive ratio: 3.61
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 - 91H
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1620/2155/535
Power to weight ratio (kg/kW; kg/hp)(empty): 17.6; 13.0
Max. axle load front/rear (kg): 1100/1100
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 202
Acceleration 0-100 km/h (sec)*: 11.1
Acc. 80-120 km/h in 5th gear (sec)*: 14.1
Pass-by noise (dBA): 74
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased consumption and CO₂ values.
urban: 8.5 - 8.6
extra-urban: 5.0 - 5.1
total: 6.3 - 6.4
CO₂ emission (g/km): 170 - 173
Emission class: Euro 3

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.2 DTI ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 84
Stroke (mm): 98
Displacement (cc): 2172
Compression ratio: 18.5:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: cast iron/aluminum
Camshaft(s), location: 1 overhead (SOHC), driven by double bush chain
Valve train: hydraulic bucket tappets
Valve, arrangement: parallel; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: diesel direct injection
Fuel pump: mechanical
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler

Charger system:
Max. boost pressure (bar): 1.1
Output (kW/hp CEE at 1/min): 92/125 at 3250
Specific power (kW/l; hp/l): 42.4; 57.6
Max. torque (Nm at 1/min): 280 at 1500
Specific torque (Nm/liter): 128.9
Mean effective pressure at max. power/max. torque (kPa): 1563.10/1620.7
Average piston speed (m/s): 10.6
Engine oil, capacity (l): 5.5
Cooling capacity (l): 7.8
Battery 12 V, capacity (Ah): 70
Alternator 14.2 V, capacity (W): 1988

Transmission

Drive axle: front wheel drive
Transmission, type: automatic with ActiveSelect
Gear ratios: 1st ratio: 4.68 2nd ratio: 2.94 3rd ratio: 1.92
4th ratio: 1.30 5th ratio: 1.00
reverse ratio: 3.17 final drive ratio: 2.40

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 - 91H
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1633/2180/547
Power to weight ratio (kg/kW; kg/hp)(empty): 17.8; 13.1
Max. axle load front/rear (kg): 1130/1100
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 199
Acceleration 0-100 km/h (sec)*: 12.2
Pass-by noise (dBA): 73
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 10.5 - 10.6
extra-urban: 5.6 - 5.7
total: 7.4 - 7.5

CO₂ emission (g/km): 200 - 203
Emission class: Euro 3

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.2 DIRECT ECOTEC
Engine, location: front, transverse in front of axle, 10° backward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 86
Stroke (mm): 94.6
Displacement (cc): 2198
Compression ratio: 12:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: aluminum/aluminum
Camshaft(s), location: 2 overhead (2 DOHC), driven by chain
Valve train: indirect, roller cam followers
Valve, arrangement: v; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: gasoline direct injection
Ignition system: electr. ignition map, ignition coil direct to spark plug
Fuel pump: electric, in tank; mechanical at cylinder head
Emission control system: 3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min): 114/155 at 5600
Specific power (kW/l; hp/l): 51.9; 70.5
Max. torque (Nm at 1/min): 220 at 3800
Specific torque (Nm/liter): 100.1
Mean effective pressure at max. power/max. torque (kPa): 1111.4/1258.3
Average piston speed (m/s): 17.7
Engine oil, capacity (l): 5
Cooling capacity (l): 7.2
Battery 12 V, capacity (Ah): 72
Alternator 14.2 V, capacity (W): 1704

Transmission

Drive axle: front wheel drive
Transmission, type: manual
Gear ratios: 1st ratio: 3.58 2nd ratio: 2.02 3rd ratio: 1.35
4th ratio: 0.98 5th ratio: 0.81
reverse ratio: 3.31 final drive ratio: 4.17
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 H
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1550/2085/535
Power to weight ratio (kg/kW; kg/hp)(empty): 13.6; 10.0
Max. axle load front/rear (kg): 1020/1100
Trailer load braked/unbraked (kg): 1600/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 212
Acceleration 0-100 km/h (sec)*: 10.1
Acc. 80-120 km/h in 5th gear (sec)*: 13.5
Pass-by noise (dBA): 73
Fuel: unleaded premium 95 RON
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 10.6 - 10.7
extra-urban: 6.6 - 6.7
total: 8.1 - 8.2
CO₂ emission (g/km): 194 - 197
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 2.2 DIRECT ECOTEC
Engine, location: front, transverse in front of axle, 10° backward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 86
Stroke (mm): 94.6
Displacement (cc): 2198
Compression ratio: 12:1
Engine, type: in line; 5 main bearings
Cylinder block/head, material: aluminum/aluminum
Camshaft(s), location: 2 overhead (2 DOHC), driven by chain
Valve train: indirect, roller cam followers
Valve, arrangement: v; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: gasoline direct injection
Ignition system: electr. ignition map, ignition coil direct to spark plug
Fuel pump: electric, in tank; mechanical at cylinder head
Emission control system: 3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min): 114/155 at 5600
Specific power (kW/l; hp/l): 51.9; 70.5
Max. torque (Nm at 1/min): 220 at 3800
Specific torque (Nm/liter): 100.1
Mean effective pressure at max. power/max. torque (kPa): 1111.4/1258.3
Average piston speed (m/s): 17.7
Engine oil, capacity (l): 5
Cooling capacity (l): 7.4
Battery 12 V, capacity (Ah): 72
Alternator 14.2 V, capacity (W): 1704

Transmission

Drive axle: front wheel drive
Transmission, type: automatic with ActiveSelect
Gear ratios: 1st ratio: 4.68 2nd ratio: 2.94 3rd ratio: 1.92
4th ratio: 1.30 5th ratio: 1.00
reverse ratio: 3.17 final drive ratio: 2.60

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 285
Brakes rear, diameter (mm): solid disc, 278
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 H
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1580/2115/535
Power to weight ratio (kg/kW; kg/hp)(empty): 13.9; 10.2
Max. axle load front/rear (kg): 1050/1100
Trailer load braked/unbraked (kg): 1600/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 208
Acceleration 0-100 km/h (sec)*: 11
Pass-by noise (dBA): 73
Fuel: unleaded premium 95 RON
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased consumption and CO₂ values.
urban: 12.1 - 12.2
extra-urban: 6.9 - 7.0
total: 8.8 - 8.9
CO₂ emission (g/km): 211 - 214
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 30,000 km

* Basic model

* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 3.0 V6 CDTI ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 6
Bore (mm): 87.5
Stroke (mm): 82
Displacement (cc): 2958
Compression ratio: 18.5:1
Engine, type: V 66°; 4 main bearings
Cylinder block/head, material: aluminum/aluminum
Camshaft(s), location: 4 overhead (DOHC), gear/toothed belt
Valve train: direct, bucket tappets
Valve, arrangement: parallel; 4 per cylinder
Valve adjustment: mechanical
Fuel system: diesel direct injection, common rail
Fuel pump: high pressure, mechanic
Emission control system: 2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler

Charger system:
Max. boost pressure (bar): 1.2
Output (kW/hp CEE at 1/min): 130/177 at 4000
Specific power (kW/l; hp/l): 43.9; 59.8
Max. torque (Nm at 1/min): 370 at 1900
Specific torque (Nm/liter): 125.1
Mean effective pressure at max. power/max. torque (kPa): 1318.5/1572.6
Average piston speed (m/s): 10.9
Engine oil, capacity (l): 7.25
Cooling capacity (l): 8.3
Battery 12 V, capacity (Ah): 85
Alternator 14.2 V, capacity (W): 1988

Transmission

Drive axle: front wheel drive
Transmission, type: 6-speed manual
Gear ratios: 1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.32
4th ratio: 0.95 5th ratio: 0.76 6th ratio: 0.62
reverse ratio: 3.54 final drive ratio: 3.55

Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS^{PLUS} chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts with continuous damping control (CDC)
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers with CDC
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 314
Brakes rear, diameter (mm): ventilated disc, 292
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6,5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.95/11.21
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1738/2240/502
Power to weight ratio (kg/kW; kg/hp)(empty): 13.4; 9.8
Max. axle load front/rear (kg): 1175/1140
Trailer load braked/unbraked (kg): 1800/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 222
Acceleration 0-100 km/h (sec)*: 9.8
Acc. 80-120 km/h in 5th gear (sec)*: 9.1
Pass-by noise (dBA): 73
Fuel: Diesel
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased consumption and CO₂ values.
urban: 10.1 - 10.2
extra-urban: 5.7 - 5.8
total: 7.3 - 7.4
CO₂ emission (g/km): 197 - 200
Emission class: Euro 3

Maintenance

Service intervals: Service check every 24 months or after up to 50,000 km

* Basic model
* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany

Model year:	2005 ½
Date:	01/2005
Engine data	
Engine:	3.0 V6 CDTI ECOTEC
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	6
Bore (mm):	87.5
Stroke (mm):	82
Displacement (cc):	2958
Compression ratio:	18.5:1
Engine, type:	V 66°; 4 main bearings
Cylinder block/head, material:	aluminum/aluminum
Camshaft(s), location:	4 overhead (DOHC), gear/toothed belt
Valve train:	direct, bucket tappets
Valve, arrangement:	parallel; 4 per cylinder
Valve adjustment:	mechanical
Fuel system:	diesel direct injection, common rail
Fuel pump:	high pressure, mechanic
Emission control system:	2-way cat. conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler
Charger system:	
Max. boost pressure (bar):	1.2
Output (kW/hp CEE at 1/min):	130/177 at 4000
Specific power (kW/l; hp/l):	43.9; 59.8
Max. torque (Nm at 1/min):	330 at 1600
Specific torque (Nm/liter):	111.6
Mean effective pressure at max. power/max. torque (kPa):	1318.5/1402.6
Average piston speed (m/s):	10.9
Engine oil, capacity (l):	7.25
Cooling capacity (l):	8.3
Battery 12 V, capacity (Ah):	85
Alternator 14.2 V, capacity (W):	1988
Transmission	
Drive axle:	front wheel drive
Transmission, type:	automatic with ActiveSelect
Gear ratios:	1st ratio: 4.68 2nd ratio: 2.94 3rd ratio: 1.92 4th ratio: 1.30 5th ratio: 1.00 reverse ratio: 3.17 final drive ratio: 2.23
Body	
Seats:	5
Drag coefficient (c _d):	0.30*
Frontal area (A in m ²):	2.24
Index (c _w xA):	0.67*
IDS^{PLUS} chassis	
Wheel suspension front:	independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts with continuous damping control (CDC)
Wheel suspension rear:	multi-link suspension, 3 transverse+1 longitudinal arm, coil springs, gas-filled shock absorbers with CDC
Anti roll bar:	front + rear

Brakes	
Brake circuits:	2, diagonal
Brakes front, diameter (mm):	ventilated disc, 314
Brakes rear, diameter (mm):	ventilated disc, 292
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment

Weights and dimensions	
Length (mm):	4822
Width (mm):	1798
Height (mm):	1500
Wheelbase (mm):	2830
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	530-1850
Cargo-area length (mm):	1175
Cargo-area width (mm):	1060
Cargo-area height (mm):	841
Rim width (inch)(mm)/tire size:	6,5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m):	11.95/11.21
Steer. wheel turns lock/lock:	2.75
Steering, ratio:	electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm):	385
Kerb weight/max. allowable weight/additional load (kg):	1763/2265/502
Power to weight ratio (kg/kW; kg/hp)(empty):	13.6; 10.0
Max. axle load front/rear (kg):	1205/1140
Trailer load braked/unbraked (kg):	1200/750
Trailer hook weight/roof load (kg):	85/75
Fuel tank capacity (l), location:	60, under rear seats

Performance	
Top speed (km/h)*:	220
Acceleration 0-100 km/h (sec)*:	10.1
Pass-by noise (dBA):	73
Fuel:	Diesel
Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO ₂ values. urban: 11.0 - 11.1 extra-urban: 5.8 - 5.9 total: 7.7 - 7.8
CO ₂ emission (g/km):	208 - 211
Emission class:	Euro 3

Maintenance	
Service intervals:	Service check every 24 months or after up to 50,000 km

* Basic model
* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany

Model year:	2005 ½
Date:	01/2005
Engine data	
Engine:	3.2 V6 ECOTEC
Engine, location:	front, transverse in front of axle, 1° forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	6
Bore (mm):	87.5
Stroke (mm):	88
Displacement (cc):	3175
Compression ratio:	10:1
Engine, type:	v 54°; 4 main bearings
Cylinder block/head, material:	cast iron/aluminium alloy
Camshaft(s), location:	4 overhead (DOHC), driven by toothed belt
Valve train:	hydraulic bucket tappets
Valve, arrangement:	v; 4 per cylinder
Valve adjustment:	automatic - hydraulic
Fuel system:	sequential multi point fuel injection
Ignition system:	electr. ignition map, ignition coil direct to spark plug
Fuel pump:	electric, in tank
Emission control system:	3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min):	155/211 at 6200
Specific power (kW/l; hp/l):	48.8; 66.5
Max. torque (Nm at 1/min):	300 at 4000
Specific torque (Nm/liter):	94.5
Mean effective pressure at max. power/max. torque (kPa):	944.9/1187.9
Average piston speed (m/s):	18.2
Engine oil, capacity (l):	4.75
Cooling capacity (l):	7.7
Battery 12 V, capacity (Ah):	66
Alternator 14.2 V, capacity (W):	1988
Transmission	
Drive axle:	front wheel drive
Transmission, type:	manual
Gear ratios:	1st ratio: 3.38 2nd ratio: 1.76 3rd ratio: 1.12 4th ratio: 0.89 5th ratio: 0.70 reverse ratio: 3.17 final drive ratio: 4.05
Clutch, type:	dry single plate
Body	
Seats:	5
Drag coefficient (c _D):	0.30*
Frontal area (A in m ²):	2.24
Index (c _w xA):	0.67*
IDS^{PLUS} chassis	
Wheel suspension front:	independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts with continuous damping control (CDC)
Wheel suspension rear:	multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers with CDC
Anti roll bar:	front + rear
Brakes	
Brake circuits:	2, diagonal
Brakes front, diameter (mm):	ventilated disc, 314
Brakes rear, diameter (mm):	ventilated disc, 292
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment

Weights and dimensions	
Length (mm):	4822
Width (mm):	1798
Height (mm):	1500
Wheelbase (mm):	2830
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	530-1850
Cargo-area length (mm):	1175
Cargo-area width (mm):	1060
Cargo-area height (mm):	841
Rim width (inch)(mm)/tire size:	6.5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m):	11.95/11.26
Steer. wheel turns lock/lock:	2.75
Steering, ratio:	electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm):	385
Kerb weight/max. allowable weight/additional load (kg):	1625/2160/535
Power to weight ratio (kg/kW; kg/hp)(empty):	10.5; 7.7
Max. axle load front/rear (kg):	1090/1100
Trailer load braked/unbraked (kg):	1800/750
Trailer hook weight/roof load (kg):	85/75
Fuel tank capacity (l), location:	60, under rear seats
Performance	
Top speed (km/h)*:	239
Acceleration 0-100 km/h (sec)*:	8.1
Acc. 80-120 km/h in 5th gear (sec)*:	12.9
Pass-by noise (dBA):	74
Fuel:	unleaded premium 95 RON
Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO ₂ values.
	urban: 14.3 - 14.4
	extra-urban: 7.6 - 7.7
	total: 10.1 - 10.2
CO ₂ emission (g/km):	242 - 245
Emission class:	Euro 4
Maintenance	
Service intervals:	Service check every 24 months or after up to 30,000 km
* Basic model	
* Kerb weight (70156 EEC) and 125 kg payload	
Specifications may differ outside Germany	

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 3.2 V6 ECOTEC
Engine, location: front, transverse in front of axle, 1° forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 6
Bore (mm): 87.5
Stroke (mm): 88
Displacement (cc): 3175
Compression ratio: 10:1
Engine, type: v 54°; 4 main bearings
Cylinder block/head, material: cast iron/aluminium alloy
Camshaft(s), location: 4 overhead (DOHC), driven by toothed belt
Valve train: hydraulic bucket tappets
Valve, arrangement: v; 4 per cylinder
Valve adjustment: automatic - hydraulic
Fuel system: sequential multi point fuel injection
Ignition system: electr. ignition map, ignition coil direct to spark plug
Fuel pump: electric, in tank
Emission control system: 3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min): 155/211 at 6200
Specific power (kW/l; hp/l): 48.8; 66.5
Max. torque (Nm at 1/min): 300 at 4000
Specific torque (Nm/liter): 94.5
Mean effective pressure at max. power/max. torque (kPa): 944.9/1187.9
Average piston speed (m/s): 18.2
Engine oil, capacity (l): 4.75
Cooling capacity (l): 7.9
Battery 12 V, capacity (Ah): 66
Alternator 14.2 V, capacity (W): 1988

Transmission

Drive axle: front wheel drive
Transmission, type: automatic with ActiveSelect
Gear ratios: 1st ratio: 4.68 2nd ratio: 2.94 3rd ratio: 1.92
4th ratio: 1.30 5th ratio: 1.00
reverse ratio: 3.17 final drive ratio: 2.40

Body

Seats: 5
Drag coefficient (c_d): 0.30*
Frontal area (A in m²): 2.24
Index (c_wxA): 0.67*

IDS^{PLUS} chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts with continuous damping control (CDC)
Wheel suspension rear: multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers with CDC
Anti roll bar: front + rear

Brakes

Brake circuits: 2, diagonal
Brakes front, diameter (mm): ventilated disc, 314
Brakes rear, diameter (mm): ventilated disc, 292
ABS: standard equipment
TC Plus: standard equipment
ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4822
Width (mm): 1798
Height (mm): 1500
Wheelbase (mm): 2830
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 530-1850
Cargo-area length (mm): 1175
Cargo-area width (mm): 1060
Cargo-area height (mm): 841
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.95/11.26
Steer. wheel turns lock/lock: 2.75
Steering, ratio: electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm): 385
Kerb weight/max. allowable weight/additional load (kg): 1633/2185/535
Power to weight ratio (kg/kW; kg/hp)(empty): 10.5; 7.7
Max. axle load front/rear (kg): 1120/1100
Trailer load braked/unbraked (kg): 1800/750
Trailer hook weight/roof load (kg): 85/75
Fuel tank capacity (l), location: 60, under rear seats

Performance

Top speed (km/h)*: 237
Acceleration 0-100 km/h (sec)*: 8.4
Pass-by noise (dBA): 74
Fuel: unleaded premium 95 RON
Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO₂ values.
urban: 15.6 - 15.7
extra-urban: 7.7 - 7.8
total: 10.6 - 10.7
CO₂ emission (g/km): 254 - 257
Emission class: Euro 4

Maintenance

Service intervals: Service check every 24 months or after up to 30,000 km

* Basic model
* Kerb weight (70156 EEC) and 125 kg payload
Specifications may differ outside Germany