

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<sub>D</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 11.0 - 11.1  
extra-urban: 6.1 - 6.2  
total: 7.9 - 8.0  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 7.7 - 7.8  
extra-urban: 5.0 - 5.1  
total: 6.0 - 6.1  
CO<sub>2</sub> 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<sub>D</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 7.8 - 7.9  
extra-urban: 5.1 - 5.2  
total: 6.1 - 6.2  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 9.7 - 9.8  
extra-urban: 5.6 - 5.7  
total: 7.1 - 7.2  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 7.9 - 8.0  
extra-urban: 4.8 - 4.9  
total: 5.9 - 6.0  
CO<sub>2</sub> 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<sub>D</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 13.1 - 13.2  
extra-urban: 6.9 - 7.0  
total: 9.2 - 9.3  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 8.5 - 8.6  
extra-urban: 5.0 - 5.1  
total: 6.3 - 6.4  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 10.5 - 10.6  
extra-urban: 5.6 - 5.7  
total: 7.4 - 7.5  
  
CO<sub>2</sub> 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<sub>D</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 10.6 - 10.7  
extra-urban: 6.6 - 6.7  
total: 8.1 - 8.2  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 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 CO<sub>2</sub> values.  
urban: 12.1 - 12.2  
extra-urban: 6.9 - 7.0  
total: 8.8 - 8.9  
CO<sub>2</sub> 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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 0.67\*

**IDS<sup>PLUS</sup> 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 CO<sub>2</sub> values.  
urban: 10.1 - 10.2  
extra-urban: 5.7 - 5.8  
total: 7.3 - 7.4  
CO<sub>2</sub> 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
<b>Engine data</b>	
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
<b>Transmission</b>	
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
<b>Body</b>	
Seats:	5
Drag coefficient (c <sub>d</sub> ):	0.30*
Frontal area (A in m <sup>2</sup> ):	2.24
Index (c <sub>w</sub> xA):	0.67*
<b>IDS<sup>PLUS</sup> chassis</b>	
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 <sub>2</sub> values. urban: 11.0 - 11.1 extra-urban: 5.8 - 5.9 total: 7.7 - 7.8
CO <sub>2</sub> 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
<b>Engine data</b>	
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
<b>Transmission</b>	
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
<b>Body</b>	
Seats:	5
Drag coefficient (c <sub>D</sub> ):	0.30*
Frontal area (A in m <sup>2</sup> ):	2.24
Index (c <sub>w</sub> xA):	0.67*
<b>IDS<sup>PLUS</sup> chassis</b>	
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
<b>Brakes</b>	
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

<b>Weights and dimensions</b>	
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
<b>Performance</b>	
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 <sub>2</sub> values.
	urban: 14.3 - 14.4
	extra-urban: 7.6 - 7.7
	total: 10.1 - 10.2
CO <sub>2</sub> emission (g/km):	242 - 245
Emission class:	Euro 4
<b>Maintenance</b>	
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<sub>d</sub>): 0.30\*  
Frontal area (A in m<sup>2</sup>): 2.24  
Index (c<sub>w</sub>xA): 0.67\*

**IDS<sup>PLUS</sup> 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 CO<sub>2</sub> values.  
urban: 15.6 - 15.7  
extra-urban: 7.7 - 7.8  
total: 10.6 - 10.7  
CO<sub>2</sub> 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