

Model year: 2005 ½
Date: 01/2005

Engine data

Engine: 1.6 ECOTEC
Engine, location: front, transverse in front of axle, 7° 50' forward inclined
Cooling system: with liquid, sealed circuit
Cylinders, number: 4
Bore (mm): 79
Stroke (mm): 81.5
Displacement (cc): 1598
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): 74/100 at 6000
Specific power (kW/l; hp/l): 46.3; 62.6
Max. torque (Nm at 1/min): 150 at 3600
Specific torque (Nm/liter): 93.9
Mean effective pressure at max. power/max. torque (kPa): 926.2/1180.1
Average piston speed (m/s): 16.3
Engine oil, capacity (l): 3.5
Cooling capacity (l): 6.1
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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 up to 240 km/h category V
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1360/1835/475
Power to weight ratio (kg/kW; kg/hp)(empty): 18.4; 13.6
Max. axle load front/rear (kg): 915/960
Trailer load braked/unbraked (kg): 1300/680
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 192
Acceleration 0-100 km/h (sec)*: 12.5
Acc. 80-120 km/h in 5th gear (sec)*: 16
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: 9.9 - 10.0
extra-urban: 5.6 - 5.7
total: 7.2 - 7.3

CO₂ emission (g/km): 173 - 175
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

Vectra 1.8 90kW/122hp 5-speed notchback 4 doors

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: 3.74
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 up to 240 km/h category V
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1395/1870/475
Power to weight ratio (kg/kW; kg/hp)(empty): 15.5; 11.4
Max. axle load front/rear (kg): 950/960
Trailer load braked/unbraked (kg): 1300/685
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 205
Acceleration 0-100 km/h (sec)*: 11.2
Acc. 80-120 km/h in 5th gear (sec)*: 15.5
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: 10.7 - 10.8
extra-urban: 5.8 - 5.9
total: 7.6 - 7.7
CO₂ emission (g/km): 182 - 185
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/aluminium
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: Output (kW/hp CEE at 1/min): 88/120 at 3500
Specific power (kW/l; hp/l): 46.1; 62.8
Max. torque (Nm at 1/min): 280 at 2000
Specific torque (Nm/liter): 146.6
Mean effective pressure at max. power/max. torque (kPa): 1579.7/1843.0
Average piston speed (m/s): 10.5
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: 0.76 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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1523/2010/487
Power to weight ratio (kg/kW; kg/hp)(empty): 17.3; 12.7
Max. axle load front/rear (kg): 1070/960
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 200
Acceleration 0-100 km/h (sec)*: 11.5
Acc. 80-120 km/h in 5th gear (sec)*: 12.1
Pass-by noise (dBA): 72 (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: 7.4 - 7.5
extra-urban: 4.7 - 4.8
total: 5.7 - 5.8
CO₂ emission (g/km): 154 - 157
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
Charger system: turbo with intercooler
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: 0.76 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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1523/2010/487
Power to weight ratio (kg/kW; kg/hp)(empty): 13.8; 10.2
Max. axle load front/rear (kg): 1080/960
Trailer load braked/unbraked (kg): 1600/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 217
Acceleration 0-100 km/h (sec)*: 9.8
Acc. 80-120 km/h in 5th gear (sec)*: 9.5
Pass-by noise (dBA): 72 (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: 7.5 - 7.6
extra-urban: 4.8 - 4.9
total: 5.8 - 5.9
CO₂ emission (g/km): 157 - 159
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 1.9 CDTI 110kW/150hp 6-speed autom. notchback 4 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: turbo with intercooler, with DPF
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): 167.5
Mean effective pressure at max. power/max. torque (kPa): 1727.7/2106.3
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: 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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R 15 H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1548/2040/492
Power to weight ratio (kg/kW; kg/hp)(empty): 14.1; 10.3
Max. axle load front/rear (kg): 1080/960
Trailer load braked/unbraked (kg): 1600/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 210
Acceleration 0-100 km/h (sec)*: 10
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: 9.5 - 9.6
extra-urban: 5.4 - 5.5
total: 6.9 - 7.0

CO₂ emission (g/km): 186 - 189
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'
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: 1.0
Max. boost pressure (bar): 1.0
Output (kW/hp CEE at 1/min): 74/100 at 3000
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): 1112.8/1449.4
Average piston speed (m/s): 12
Engine oil, capacity (l): 5.5
Cooling capacity (l): 7.3
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: 3.38 final drive ratio: 3.74
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_d): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5x15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1510/1985/475
Power to weight ratio (kg/kW; kg/hp)(empty): 20.4; 15.1
Max. axle load front/rear (kg): 1060/960
Trailer load braked/unbraked (kg): 1500/745
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 192
Acceleration 0-100 km/h (sec)*: 13
Acc. 80-120 km/h in 5th gear (sec)*: 14.8
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: 7.6 - 7.7
extra-urban: 4.5 - 4.6
total: 5.6 - 5.7
CO₂ emission (g/km): 151 - 154
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: 3.95
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_D): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1510/1985/475
Power to weight ratio (kg/kW; kg/hp)(empty): 11.7; 8.6
Max. axle load front/rear (kg): 1040/960
Trailer load braked/unbraked (kg): 1600/730
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 230
Acceleration 0-100 km/h (sec)*: 9.1
Acc. 80-120 km/h in 5th gear (sec)*: 9.2
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: 12.8 - 12.9
extra-urban: 6.6 - 6.7
total: 8.9 - 9.0
CO₂ emission (g/km): 214 - 216
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 4000
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): 1270.7/1620.7
Average piston speed (m/s): 13.1
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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5x15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1525/2000/475
Power to weight ratio (kg/kW; kg/hp)(empty): 16.6; 12.2
Max. axle load front/rear (kg): 1075/960
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 206
Acceleration 0-100 km/h (sec)*: 10.8
Acc. 80-120 km/h in 5th gear (sec)*: 12.5
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: 8.2 - 8.3
extra-urban: 4.7 - 4.8
total: 6.0 - 6.1
CO₂ emission (g/km): 162 - 165
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 4000
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): 1270.7/1620.7
Average piston speed (m/s): 13.1
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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5x15/195/65 R 15 up to 210 km/h category H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1550/2025/475
Power to weight ratio (kg/kW; kg/hp)(empty): 16.8; 12.4
Max. axle load front/rear (kg): 1105/960
Trailer load braked/unbraked (kg): 1500/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 202
Acceleration 0-100 km/h (sec)*: 11.8
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: 10.3 - 10.4
extra-urban: 5.4 - 5.5
total: 7.2 - 7.3
CO₂ emission (g/km): 194 - 197
Emission class: Euro 3

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 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: 3.95
Clutch, type: dry single plate

Body

Seats: 5
Drag coefficient (c_d): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1455/1930/475
Power to weight ratio (kg/kW; kg/hp)(empty): 12.8; 9.4
Max. axle load front/rear (kg): 995/960
Trailer load braked/unbraked (kg): 1500/715
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 218
Acceleration 0-100 km/h (sec)*: 9.6
Acc. 80-120 km/h in 5th gear (sec)*: 13.3
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: 10.3 - 10.4
extra-urban: 6.2 - 6.3
total: 7.7 - 7.8
CO₂ emission (g/km): 185 . 187
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 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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6.5Jx16/215/55 R16 H
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1485/1960/475
Power to weight ratio (kg/kW; kg/hp)(empty): 13.0; 9.6
Max. axle load front/rear (kg): 1025/960
Trailer load braked/unbraked (kg): 1600/715
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 212
Acceleration 0-100 km/h (sec)*: 10.5
Pass-by noise (dBA): 71
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: 11.8 - 11.9
extra-urban: 6.6 - 6.7
total: 8.5 - 8.6

CO₂ emission (g/km): 204 - 206
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, 1° 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):	0.28*
Frontal area (A in m ²):	2.18
Index (c _w xA):	0.61*
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):	4596
Width (mm):	1798
Height (mm):	1460
Wheelbase (mm):	2700
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	500-1050
Rim width (inch)(mm)/tire size:	6,5x16/215/55 R16 V
Turning clearance circle/turning circle (m):	11.50/10.76
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):	1613/2110/497
Power to weight ratio (kg/kW; kg/hp)(empty):	12.4; 9.1
Max. axle load front/rear (kg):	1160/960
Trailer load braked/unbraked (kg):	1600/750
Trailer hook weight/roof load (kg):	78/100
Fuel tank capacity (l), location:	61, under rear seats
Performance	
Top speed (km/h)*:	226
Acceleration 0-100 km/h (sec)*:	9.3
Acc. 80-120 km/h in 5th gear (sec)*:	8.4
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: 9.8 - 9.9
	extra-urban: 5.4 - 5.5
	total: 7.0 - 7.1
CO ₂ emission (g/km):	189 - 192
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, 1° 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: turbo with intercooler
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): 0.28*
Frontal area (A in m²): 2.18
Index (c_wxA): 0.61*

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): 4596
Width (mm): 1798
Height (mm): 1460
Wheelbase (mm): 2700
Track front/rear (mm): 1536/1525
Luggage capacity (l) ECIE: 500-1050
Rim width (inch)(mm)/tire size: 6,5Jx16/215/55 R16 V
Turning clearance circle/turning circle (m): 11.50/10.76
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): 1638/2135/497
Power to weight ratio (kg/kW; kg/hp)(empty): 12.6; 9.3
Max. axle load front/rear (kg): 1190/960
Trailer load braked/unbraked (kg): 1400/750
Trailer hook weight/roof load (kg): 78/100
Fuel tank capacity (l), location: 61, under rear seats

Performance

Top speed (km/h)*: 223
Acceleration 0-100 km/h (sec)*: 9.5
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: 10.7 - 10.8
extra-urban: 5.5 - 5.6
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:	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):	0.28*
Frontal area (A in m ²):	2.18
Index (c _w xA):	0.61*
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):	4596
Width (mm):	1798
Height (mm):	1460
Wheelbase (mm):	2700
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	500-1050
Rim width (inch)(mm)/tire size:	6.5Jx16/215/55 R16 W
Turning clearance circle/turning circle (m):	11.50/10.76
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):	1523/2005/482
Power to weight ratio (kg/kW; kg/hp)(empty):	9.8; 7.2
Max. axle load front/rear (kg):	1065/960
Trailer load braked/unbraked (kg):	1600/750
Trailer hook weight/roof load (kg):	78/100
Fuel tank capacity (l), location:	61, under rear seats

Performance

Top speed (km/h)*:	248
Acceleration 0-100 km/h (sec)*:	7.5
Acc. 80-120 km/h in 5th gear (sec)*:	11.3
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: 14.0 - 14.1
	extra-urban: 7.3 - 7.4
	total: 9.8 - 9.9
CO ₂ emission (g/km):	235 - 238
Emission class:	Euro 4

Maintenance

Service intervals:	Service check every 24 months or after up to 30,000 km
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* 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):	0.28*
Frontal area (A in m ²):	2.18
Index (c _w xA):	0.61*
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):	4596
Width (mm):	1798
Height (mm):	1460
Wheelbase (mm):	2700
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	500-1050
Rim width (inch)(mm)/tire size:	6.5Jx16/215/55 R16 W
Turning clearance circle/turning circle (m):	11.50/10.76
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):	1548/2030/482
Power to weight ratio (kg/kW; kg/hp)(empty):	10.0; 7.3
Max. axle load front/rear (kg):	1095/960
Trailer load braked/unbraked (kg):	1600/750
Trailer hook weight/roof load (kg):	78/100
Fuel tank capacity (l), location:	61, under rear seats

Performance

Top speed (km/h)*:	246
Acceleration 0-100 km/h (sec)*:	8
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:	15.4 - 15.5
extra-urban:	7.5 - 7.6
total:	10.4 - 10.5

CO₂ emission (g/km):
Emission class:

250 - 252
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