# Vectra Caravan 1.8 90kW/122hp 5-speed station wagon 5 doors

Model year:
Date:

2005 ½
01/2005

Engine data
Engine:
Engine, location:
Engine, location:
Cooling system:
Covinders, number:

4

2005 ½
01/2005

 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: y: 4 per cylinder

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 CEÉ 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

dry single plate

#### Body

Clutch, type:

#### **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:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Solid disc, 278

Standard equipment

TC Plus:

Standard equipment

ESP Plus:

Standard equipment

## Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) 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):

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 (I), 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.

385

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: Furo 4

#### Maintenance

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

\* Basic model

# Vectra Caravan 1.9 CDTI 88kW/120hp 6-speed 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:
 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

Charger system: turbo with intercooler
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: fospeed 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 ( $c_{\text{\tiny D}}$ ): 0.30 $^{\circ}$  Frontal area (A in m²): 2.24 Index ( $c_{\text{\tiny L}}$ XA): 0.67 $^{\circ}$ 

#### **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:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Solid disc, 278

Standard equipment

TC Plus:

Standard equipment

ESP Plus:

Standard equipment

### Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) 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

385

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):

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 (I), 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

<sup>\*</sup> Basic model

<sup>\*</sup> Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

Vectra Caravan 1.9 CDTI 110kW/150hp 6-speed station wagon 5 doors Model year: 2005 1/2 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: Bore (mm): 82 90.4 Stroke (mm): 1910 Displacement (cc): 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: hvdraulic Fuel system: diesel direct injection, common rail Fuel pump: high pressure, mechanic 2-way cat. conv. (oxidizing catalytic converter). Emission control system: 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 (I): 4.3 7.5 Cooling capacity (I): 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 66th ratio: 0.62 reverse ratio: 3.54 final drive ratio: 3.55 Clutch, type: dry single plate Body Seats: 5 Drag coefficient (c<sub>a</sub>):  $0.30^{+}$ Frontal area (A in m2): 2.24 0.67+ Index (c \_xA): **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 ventilated disc, 285 Brakes front, diameter (mm):

solid disc. 278

standard equipment

standard equipment

standard equipment

Brakes rear, diameter (mm):

ABS:

TC Plus:

ESP Plus:

## Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) 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

385

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):

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 (I), 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  $CO_2$  values. urban: 7.8 - 7.9 extra-urban: 5.1 - 5.2

extra-urban: 5.1 - 5.2 total: 6.1 - 6.2

CO<sub>2</sub> emission (g/km): 165 - 167 Emission class: Furo 4

#### Maintenance

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

<sup>\*</sup> Basic model

<sup>\*</sup> 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

 Bore (mm):
 82

 Stroke (mm):
 90.4

 Displacement (cc):
 1910

 Compression ratio:
 17.5:1

 Exprise type:
 in line

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

 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

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

 $\begin{array}{lll} \text{Seats:} & & 5 \\ \text{Drag coefficient (c}_{\text{\tiny D}}\text{):} & & 0.30^{+} \\ \text{Frontal area (A in m}^{2}\text{):} & & 2.24 \\ \text{Index (c}_{\text{\tiny W}}\text{XA}\text{):} & & 0.67^{+} \\ \end{array}$ 

#### **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):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

CP lus:

ESP Plus:

2, diagonal

ventilated disc, 285

solid disc, 278

standard equipment

standard equipment

ESP Plus:

standard equipment

## Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) 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

385

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):

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 (I), 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

192 - 194

Emission class: Euro 4

#### Maintenance

CO2 emission (g/km):

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

<sup>\*</sup> Basic model

<sup>\*</sup> 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
Chargar avatam:	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	11010
max. power/max. torque (kPa):	1426.6/1449.4
Average piston speed (m/s):	9.4
Engine oil, capacity (I):	5.5
Cooling capacity (I):	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>s</sub> ):	0.30⁺
Frontal area (A in m²):	2.24
Index (c _xA):	0.67*

Index (c \_xA): 0.67

#### IDS chassis

Wheel suspension rear:

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts

multi-link suspension, 3 transverse+1longitudinal arm,

coil springs, gas-filled shock absorbers

Anti roll bar: front + rear

#### **Brakes**

Brake circuits: 2, diagonal ventilated disc. 285 Brakes front, diameter (mm): solid disc. 278 Brakes rear, diameter (mm): 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 (I) 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 (I), location: 60, under rear seats

#### Performance

Top speed (km/h)\*: 186 Acceleration 0-100 km/h (sec)\*: 13.9 Acc. 80-120 km/h in 5th gear (sec)\*: 16.5 Pass-by noise (dBA): 71 Fuel: Diesel

Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.

Additional equipment can lead to increased

consumption and CO2 values. urban: 7.9 - 8.0 extra-urban: 4.8 - 4.9 total: 5.9 - 6.0

CO2 emission (g/km): 159 - 162 Emission class: Euro 3

#### Maintenance

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

<sup>\*</sup> Basic model

<sup>\*</sup> Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

# Vectra Caravan 2.0 Turbo 129kW/175hp 6-speed station wagon 5 doors

Model year: 2005 1/2 Date: 01/2005 Engine data Engine: 2.0 Turbo ECOTEC front, transverse in front of axle, 10° backward inclined Engine, location: Cooling system: with liquid, sealed circuit Cylinders, number: 86 Bore (mm): 86 Stroke (mm): 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 electr. ignition map, ignition coil direct to spark plug lanition system: 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 (I): 6 7.5 Cooling capacity (I): Battery 12 V, capacity (Ah): 66 Alternator 14.2 V, capacity (W): 1704 Transmission Drive axle: front wheel drive Transmission, type: 6-speed manual 1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.37 Gear ratios: 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>a</sub>):  $0.30^{+}$ Frontal area (A in m2): 2.24 0.67+ Index (c \_xA): **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 front + rear Anti roll bar: **Brakes** Brake circuits: 2, diagonal

ventilated disc, 302

ventilated disc. 292

standard equipment

standard equipment

standard equipment

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

ABS:

TC Plus:

ESP Plus:

Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) ECIE: 530-1850 Cargo-area length (mm): 1175 Cargo-area width (mm): 1060 Cargo-area height (mm): 841

6,5Jx16/215/55 R16 V Rim width (inch)(mm)/tire size:

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):

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 (I), 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.

385

Additional equipment can lead to increased

consumption and CO2 values. 13.1 - 13.2 urban:

extra-urban: 6.9 - 7.0 total: 9.2 - 9.3

CO<sub>2</sub> emission (g/km): 221 - 223 Emission class: Furo 4

#### Maintenance

Service intervals: Service check every 24 months or after up to 30.000 km

\* Basic model

Vectra Caravan 2.2 DTI 92kW/125hp 5-speed station wagon 5 doors Model year: 2005 1/2 Date: 01/2005 Engine data Engine: 22 DTI ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 84 Bore (mm): 98 Stroke (mm): 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 (I): 5.5 Cooling capacity (I): 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 Drag coefficient (c<sub>a</sub>): 0.30+ Frontal area (A in m2): 2.24

Index (c \_xA): 0.67+

#### **IDS** chassis

Wheel suspension front: independent, McPherson struts, wishbone, on subframe, gas pre-loaded struts

multi-link suspension, 3 transverse+1longitudinal arm, Wheel suspension rear:

coil springs, gas-filled shock absorbers

Anti roll bar: front + rear

#### **Brakes**

Brake circuits: 2. diagonal ventilated disc. 285 Brakes front, diameter (mm): 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 (I) 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.-hvdr. power steering, 15.2

Steering wheel outside diameter (mm):

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 (I), location: 60, under rear seats

#### Performance

Top speed (km/h)\*: 202 Acceleration 0-100 km/h (sec)\*: 11.1 Acc. 80-120 km/h in 5th gear (sec)\*: 14.1 Pass-by noise (dBA): 74 Fuel: Diesel

Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.

Additional equipment can lead to increased

consumption and CO2 values. urban: 8.5 - 8.6 extra-urban: 5.0 - 5.1 total: 6.3 - 6.4

CO2 emission (g/km): 170 - 173 Emission class: Euro 3

#### Maintenance

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

<sup>\*</sup> Basic model

<sup>\*</sup> Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

Model year: 2005 1/2 Date: 01/2005 Engine data Engine: 22 DTI ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 84 Bore (mm): Stroke (mm): 98 2172 Displacement (cc): 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

2-way cat, conv. (oxidizing catalytic Emission control system: 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

Mean effective pressure at max. power/max. torque (kPa): 1563.10/1620.7

Average piston speed (m/s): 10.6 Engine oil, capacity (I): 5.5 Cooling capacity (I): 7.8 Battery 12 V, capacity (Ah): 70 Alternator 14.2 V. capacity (W): 1988

Transmission

Specific torque (Nm/liter):

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

128.9

reverse ratio: 3.17 final drive ratio: 2.40

Body

Seats: Drag coefficient (c\_):  $0.30^{+}$ Frontal area (A in m2): 2.24  $0.67^{+}$ Index (c ...xA):

**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 ventilated disc. 285 Brakes front, diameter (mm): 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 (I) 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.-hvdr. power steering, 15.2

Steering wheel outside diameter (mm):

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 (I), location: 60, under rear seats

Performance

Top speed (km/h)\*: 199 Acceleration 0-100 km/h (sec)\*: 12.2 Pass-by noise (dBA): 73 Fuel: Diesel

Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU.

Additional equipment can lead to increased

consumption and CO2 values. urban: 10.5 - 10.6 extra-urban: 5.6 - 5.7 total: 7.4 - 7.5

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

Maintenance

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

\* Basic model

# Vectra Caravan 2.2 DIRECT 114kW/155hp 5-speed station wagon 5 doors

Vectra Caravan 2.	2 DIRECT 114kW/155hp 5-speed station wagon 5 doors
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:	with liquid, Sealed circuit 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	100.1
max. power/max. torque (kPa):	1111.4/1258.3
Average piston speed (m/s):	17.7
Engine oil, capacity (I):	5
Cooling capacity (I):	7.2
Battery 12 V, capacity (Ah):	72
Alternator 14.2 V, capacity (W):	1704
Alternator 14.2 v, capacity (vv).	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
D. I	
Body	_
Seats:	5
Drag coefficient (c <sub>D</sub> ):	0.30+
Frontal area (A in m²):	2.24
Index (c <sub>w</sub> xA):	0.67+
IDS chassis	
Wheel suspension front:	independent, McPherson struts, wishbone, on subframe,
Whice Suspension from:	gas pre-loaded struts
Wheel suspension rear:	multi-link suspension, 3 transverse+1longitudinal arm,
Whice Suspension rear.	coil springs, gas-filled shock absorbers
Anti roll bar:	front + rear
Brakes	
	O diamond
Brake circuits:	2, diagonal
Brakes front, diameter (mm):	ventilated disc, 285
Brakes rear, diameter (mm):	solid disc, 278
ABS:	standard equipment

standard equipment

standard equipment

TC Plus:

ESP Plus:

# Weights and dimensions

Length (mm): 4822 1798 Width (mm): 1500 Height (mm): 2830 Wheelbase (mm): Track front/rear (mm): 1536/1525 Luggage capacity (I) 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):

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): 1600/750
Trailer load braked/unbraked (kg): 1600/750
Trailer hook weight/roof load (kg): 85/75

Fuel tank capacity (I), 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.

385

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

# Vectra Caravan 2.2 DIRECT 114kW/155hp 5-speed autom. station wagon 5 doors

Model year: 2005 1/2 Date: 01/2005 Engine data Engine: 22 DIRECT ECOTEC Engine, location: front, transverse in front of axle, 10° backward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 86 Bore (mm): 94.6 Stroke (mm): 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 electr. ignition map, ignition coil direct to spark plug lanition system: 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 (I): 5 7.4 Cooling capacity (I): 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: Drag coefficient (c ):  $0.30^{+}$ Frontal area (A in m2): 2.24 Index (c \_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

ventilated disc, 285

standard equipment

standard equipment

standard equipment

solid disc, 278

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

ABS:

TC Plus:

ESP Plus:

# Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) ECIE: 530-1850 Cargo-area length (mm): 1175 Cargo-area width (mm): 1060 Cargo-area height (mm): 841

6,5Jx16/215/55 R16 H Rim width (inch)(mm)/tire size:

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

385

Steering wheel outside diameter (mm):

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 (I), 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

Measured according to EU guideline 99/100/EU. Fuel consumption (liter/100 km):

Additional equipment can lead to increased

consumption and CO2 values. urban: 12.1 - 12.2 extra-urban: 6.9 - 7.0

total: 8.8 - 8.9

CO2 emission (g/km): 211 - 214 Emission class:

Euro 4

#### Maintenance

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

<sup>\*</sup> Basic model

<sup>\*</sup> Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

Vectra Caravan 3.0 V6 CDTI 130kW/177hp 6-speed station wagon 5 doors Model year: 2005 1/2 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: 87.5 Bore (mm): 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 high pressure, mechanic Fuel pump: Emission control system: 2-way cat, conv. (oxidizing catalytic converter), exhaust gas recirculation turbo with intercooler Charger system: Max. boost pressure (bar): 12 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 (I): 7.25 Cooling capacity (I): 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 Drag coefficient (c<sub>a</sub>): 0.30+ Frontal area (A in m2): 2.24 Index (c \_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:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

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 (I) 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.-hvdr. 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 (I), 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

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

# Vectra Caravan 3.0 V6 CDTI 130kW/177hp 5-speed autom. station wagon 5 doors

Model year: 2005 1/2 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: 87.5 Bore (mm): Stroke (mm): 82 2958 Displacement (cc): 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 high pressure, mechanic Fuel pump: 2-way cat. conv. (oxidizing catalytic Emission control system: converter), exhaust gas recirculation turbo with intercooler Charger system: Max. boost pressure (bar): 12 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 (I): 7.25 Cooling capacity (I): 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: Drag coefficient (c\_):  $0.30^{+}$ Frontal area (A in m2): 2.24  $0.67^{+}$ Index (c ...xA): 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,

front + rear

Anti roll bar:

coil springs, gas-filled shock absorbers with CDC

#### **Brakes**

Brake circuits:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

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 (I) 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 (I), 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

# Vectra Caravan 3.2 V6 155kW/211hp 5-speed station wagon 5 doors

Model year: 2005 1/2 Date: 01/2005 Engine data Engine: 3.2 V6 FCOTEC front, transverse in front of axle, 1° forward inclined Engine, location: Cooling system: with liquid, sealed circuit Cylinders, number: 87.5 Bore (mm): Stroke (mm): 88 Displacement (cc): 3175 Compression ratio: 10.1 Engine, type: v 54°; 4 main bearings Cylinder block/head, material: cast iron/alumnium alloy 4 overhead (DOHC), driven by toothed belt Camshaft(s), location: Valve train: hydraulic bucket tappets Valve, arrangement: v: 4 per cylinder Valve adjustment: automatic - hydraulic Fuel system: sequential multi point fuel injection lanition 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 (I): 4.75 Cooling capacity (I): 7.7 Battery 12 V, capacity (Ah): 66 Alternator 14.2 V, capacity (W): 1988 Transmission Drive axle: front wheel drive Transmission, type: manual 1st ratio: 3.38 2nd ratio: 1.76 3rd ratio: 1.12 Gear ratios: 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<sub>a</sub>):  $0.30^{+}$ Frontal area (A in m2): 2.24 0.67+ Index (c \_xA): 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 front + rear Anti roll bar: **Brakes** Brake circuits: 2, diagonal ventilated disc, 314 Brakes front, diameter (mm): Brakes rear, diameter (mm): ventilated disc. 292 standard equipment TC Plus:

standard equipment

standard equipment

ESP Plus:

# Weights and dimensions

Length (mm): 4822 Width (mm): 1798 1500 Height (mm): Wheelbase (mm): 2830 Track front/rear (mm): 1536/1525 Luggage capacity (I) ECIE: 530-1850 Cargo-area length (mm): 1175 Cargo-area width (mm): 1060 Cargo-area height (mm): 841

6,5Jx16/215/55 R16 V Rim width (inch)(mm)/tire size:

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 (I), location: 60. under rear seats

#### Performance

Top speed (km/h)\*: 239 Acceleration 0-100 km/h (sec)\*: 8.1 Acc. 80-120 km/h in 5th gear (sec)\*: 12.9 Pass-by noise (dBA): 74

Fuel: unleaded premium 95 RON

Measured according to EU guideline 99/100/EU. Fuel consumption (liter/100 km):

Additional equipment can lead to increased

consumption and CO2 values. 14.3 - 14.4 urban:

extra-urban: 7.6 - 7.7 101-102 total:

CO<sub>2</sub> emission (g/km): 242 - 245 Emission class: Furo 4

#### Maintenance

Service intervals: Service check every 24 months or after up to 30.000 km

\* Basic model

Vectra Caravan 3.2 v	6 155kW/211hp 5-speed autom. station wagon 5 doors
Model year: Date:	2005 ½ 01/2005
Engine data	
Engine: Engine, location: Cooling system: Cylinders, number: Bore (mm): Stroke (mm): Displacement (cc): Compression ratio: Engine, type: Cylinder block/head, material: Camshaft(s), location: Valve train: Valve, arrangement: Valve adjustment: Fuel system: Ignition system: Fuel pump: Emission control system: Output (kW/hp CEE at 1/min): Specific power (kW/l; hp/l): Max. torque (Nm at 1/min): Specific torque (Nm/liter): Mean effective pressure at max. power/max. torque (kPa):	3.2 V6 ECOTEC front, transverse in front of axle, 1° forward inclined with liquid, sealed circuit 6 87.5 88 3175 10:1 v 54°; 4 main bearings cast iron/alumnium alloy 4 overhead (DOHC), driven by toothed belt hydraulic bucket tappets v; 4 per cylinder automatic - hydraulic sequential multi point fuel injection electr. ignition map, ignition coil direct to spark plug electric, in tank 3-way cat. conv. with 2 oxygen sensors 155/211 at 6200 48.8; 66.5 300 at 4000 94.5
Average piston speed (m/s): Engine oil, capacity (l): Cooling capacity (l): Battery 12 V, capacity (Ah): Alternator 14.2 V, capacity (W):	18.2 4.75 7.9 66 1988
Transmission	
Drive axle: Transmission, type: Gear ratios:	front wheel drive automatic with ActiveSelect 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: Drag coefficient (c <sub>o</sub> ): Frontal area (A in m²): Index (c <sub>w</sub> xA):	5 0.30* 2.24 0.67*
IDS <sup>PLUS</sup> chassis Wheel suspension front:	independent, McPherson struts, wishbone, on subframe,
Wheel suspension rear: Anti roll bar:	gas pre-loaded struts with continuous damping control (CDC) multi-link suspension, 3 transverse+1longitudinal arm, coil springs, gas-filled shock absorbers with CDC front + rear
Brakes Brake circuits: Brakes front, diameter (mm): Brakes rear, diameter (mm): ABS: TC Plus:	2, diagonal ventilated disc, 314 ventilated disc, 292 standard equipment standard equipment

standard equipment

TC Plus: ESP Plus:

# Weights and dimensions

Length (mm): 4822 1798 1500 Width (mm): Height (mm): 2830 Wheelbase (mm): Track front/rear (mm): 1536/1525 Luggage capacity (I) 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):

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 (I), 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

254 - 257

385

CO<sub>2</sub> emission (g/km): Emission class: Euro 4

#### Maintenance

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

<sup>\*</sup> Basic model

<sup>\*</sup> Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany