

Astra OPC 2.0 Turbo 177kW/240hp 6-speed hatchback 3 doors

Model year:	2006
Date:	10/2005
Engine data	
Engine:	2.0 Turbo ECOTEC
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	86
Stroke (mm):	86
Displacement (cc):	1998
Compression ratio:	8.8:1
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
Charger system:	turbo with intercooler
Max. boost pressure (bar):	0.85
Output (kW/hp CEE at 1/min):	177/240 at 5600
Specific power (kW/l; hp/l):	88.6; 120.1
Max. torque (Nm at 1/min):	320 at 2400
Specific torque (Nm/liter):	160.2
Mean effective pressure at max. power/max. torque (kPa):	1898.3/2062.1
Average piston speed (m/s):	16.1
Engine oil, capacity (l):	5
Cooling capacity (l):	7.1
Battery 12 V, capacity (Ah):	55
Alternator 14.2 V, capacity (W):	1704

Transmission

Drive axle:	front wheel drive
Transmission, type:	6-speed manual
Gear ratios:	1st ratio: 3.82 2nd ratio: 2.16 3rd ratio: 1.48 4th ratio: 1.07 5th ratio: 0.88 6th ratio: 0.74 reverse ratio: 3.55 final drive ratio: 3.83
Clutch, type:	dry single plate

Body

Seats:	5
Drag coefficient (c _d):	0.34*
Frontal area (A in m ²):	2.03
Index (c _w xA):	0.68*

IDS chassis

Wheel suspension front:	independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers
Wheel suspension rear:	compound link suspension, torsion tube design with 2 control arms miniblock coil springs
Anti roll bar:	twin tube gas pressure shock absorbers front

Brakes

Brake circuits:	2, diagonal
Brakes front, diameter (mm):	ventilated disc, 321
Brakes rear, diameter (mm):	solid disc, 278
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment

Weights and dimensions

Length (mm):	4290
Width (mm):	1753
Height (mm):	1405
Wheelbase (mm):	2614
Overhang front/rear:	910/766
Track front/rear (mm):	1488/1485
Luggage capacity (l) ECIE:	340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire)
Opening luggage compartment to ground (mm):	695
Cargo-area length (mm):	819-1522
Cargo-area width (mm):	944
Cargo-area height (mm):	772
Rim width (inch)(mm)/tire size:	8Jx18/225/40 R18-92Y
Turning clearance circle/turning circle (m):	11.57/10.92
Steer. wheel turns lock/lock:	2.5
Steering, ratio:	electr.-hydr. power steering, 14
Steering wheel outside diameter (mm):	370
Kerb weight/max. allowable weight/additional load (kg):	1393/1860/467
Power to weight ratio (kg/kW; kg/hp)(empty):	7.9; 5.8
Max. axle load front/rear (kg):	1015/840
Trailer load braked/unbraked (kg):	1500/680
Trailer hook weight/roof load (kg):	75/75
Fuel tank capacity (l), location:	52, under rear seats

Performance

Top speed (km/h)*:	244
Acceleration 0-100 km/h (sec)*:	6.4
Acc. 80-120 km/h in 5th gear (sec)*:	6.5
Pass-by noise (dBA):	75
Fuel:	unleaded premium
Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO ₂ values. urban: 13.0 extra-urban: 7.0 total: 9.2
CO ₂ emission (g/km):	221
Emission class:	Euro 4

Maintenance

Service intervals:	General inspection after 24 months or 60.000 km; interim service with oil exchange after 12 months or 30.000 km
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* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Vectra GTS OPC 2.8 188kW/255hp 6-speed sports sedan 5 doors

Model year:	2006
Date:	10/2005
Engine data	
Engine:	2.8 ECOTEC
Engine, location:	front, transverse in front of axle, 2° backward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	6
Bore (mm):	89
Stroke (mm):	74.8
Displacement (cc):	2792
Compression ratio:	9.5:1
Engine, type:	v; 5 main bearings
Cylinder block/head, material:	aluminum/aluminum
Camshaft(s), location:	4 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
Max. boost pressure (bar):	0.7
Output (kW/hp CEE at 1/min):	188/255 at 5500
Specific power (kW/l; hp/l):	67.3; 91.3
Max. torque (Nm at 1/min):	355 at 1800
Specific torque (Nm/liter):	127.1
Mean effective pressure at max. power/max. torque (kPa):	1469.1/1623.7
Average piston speed (m/s):	13.7
Engine oil, capacity (l):	6
Cooling capacity (l):	9.6
Battery 12 V, capacity (Ah):	70
Alternator 14.2 V, capacity (W):	2130
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: 3.55
Clutch, type:	dry single plate
Body	
Seats:	5
Drag coefficient (c _d):	0.29*
Frontal area (A in m ²):	2.18
Index (c _w xA):	0.63*
IDS-chassis	
Wheel suspension front:	independent, wishbone, on subframe, McPherson struts, 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, 345
Brakes rear, diameter (mm):	ventilated disc, 292
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment

Weights and dimensions

Length (mm):	4642
Width (mm):	1798
Height (mm):	1449
Wheelbase (mm):	2700
Overhang front/rear:	944/998
Track front/rear (mm):	1536/1525
Luggage capacity (l) ECIE:	500-1360
Cargo-area length (mm):	1030 (max. 1774)
Cargo-area width (mm):	1016 (max. 1096)
Rim width (inch)(mm)/tire size:	8Jx18/235/40 R18-95W
Turning clearance circle/turning circle (m):	11.93/11.21
Steer. wheel turns lock/lock:	2.75
Steering, ratio:	electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm):	380
Kerb weight/max. allowable weight/additional load (kg):	1580/2055/475
Power to weight ratio (kg/kW; kg/hp)(empty):	8.4; 6.2
Max. axle load front/rear (kg):	1095/985
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)*:	260
Acceleration 0-100 km/h (sec)*:	6.7
Acc. 80-120 km/h in 5th gear (sec)*:	7.6
Pass-by noise (dBA):	75
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: 15.5 extra-urban: 7.4 total: 10.4
CO ₂ emission (g/km):	250
Emission class:	Euro 4

Maintenance

Service intervals:	General inspection after 24 months or 60.000 km; interim service with oil exchange after 12 months or 30.000 km
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* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Vectra Station Wagon OPC 2.8 188kW/255hp 6-speed station wagon 5 doors

Model year:	2006
Date:	10/2005
Engine data	
Engine:	2.8 ECOTEC
Engine, location:	front, transverse in front of axle, 2° backward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	6
Bore (mm):	89
Stroke (mm):	74.8
Displacement (cc):	2792
Compression ratio:	9.5:1
Engine, type:	v; 5 main bearings
Cylinder block/head, material:	aluminum/aluminum
Camshaft(s), location:	4 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
Max. boost pressure (bar):	0.7
Output (kW/hp CEE at 1/min):	188/255 at 5500
Specific power (kW/l; hp/l):	67.3; 91.3
Max. torque (Nm at 1/min):	355 at 1800
Specific torque (Nm/liter):	127.1
Mean effective pressure at max. power/max. torque (kPa):	1469.1/1623.7
Average piston speed (m/s):	13.7
Engine oil, capacity (l):	6
Cooling capacity (l):	9.6
Battery 12 V, capacity (Ah):	70
Alternator 14.2 V, capacity (W):	2130

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: 3.54
Clutch, type:	dry single plate

Body

Seats:	5
Drag coefficient (c _d):	0.32*
Frontal area (A in m ²):	2.23
Index (c _w xA):	0.71*

IDS Chassis

Wheel suspension front:	independent, wishbone, on subframe, McPherson struts, 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, 345
Brakes rear, diameter (mm):	ventilated disc, 292
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment

Weights and dimensions

Length (mm):	4870
Width (mm):	1798
Height (mm):	1487
Wheelbase (mm):	2830
Overhang front/rear:	944/1096
Track front/rear (mm):	1536/1525
Cargo-area volume (m ³) ECIE:	530-1850
Cargo-area length (mm):	1175 (max. 2046)
Cargo-area width (mm):	1060 (max. 1079)
Cargo-area height (mm):	841
Rim width (inch)(mm)/tire size:	8Jx18/235/40 R18-95W
Turning clearance circle/turning circle (m):	12.40/11.68
Steer. wheel turns lock/lock:	2.75
Steering, ratio:	electr.-hydr. power steering, 15.2
Steering wheel outside diameter (mm):	380
Kerb weight/max. allowable weight/additional load (kg):	1613/2190/577
Power to weight ratio (kg/kW; kg/hp)(empty):	8.6; 6.3
Max. axle load front/rear (kg):	1105/1100
Trailer load braked/unbraked (kg):	1800/750
Trailer hook weight/roof load (kg):	85/75
Fuel tank capacity (l), location:	60, under rear seats

Performance

Top speed (km/h)*:	254
Acceleration 0-100 km/h (sec)*:	6.9
Acc. 80-120 km/h in 5th gear (sec)*:	7.7
Pass-by noise (dBA):	75
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: 15.6
	extra-urban: 7.5
	total: 10.5
CO ₂ emission (g/km):	252
Emission class:	Euro 4

Maintenance

Service intervals:	General inspection after 24 months or 60.000 km; interim service with oil exchange after 12 months or 30.000 km
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* Basic model

* Kerb weight (70156 EEC) and 125 kg payload

Specifications may differ outside Germany

Zafira OPC 2.0 Turbo 177kW/240hp 6-speed compact van 5 doors

Model year:	2006
Date:	10/2005
Engine data	
Engine:	2.0 Turbo ECOTEC
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	86
Stroke (mm):	86
Displacement (cc):	1998
Compression ratio:	8.8:1
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
Charger system:	turbo with intercooler
Max. boost pressure (bar):	0.85
Output (kW/hp CEE at 1/min):	177/240 at 5600
Specific power (kW/l; hp/l):	88.6; 120.1
Max. torque (Nm at 1/min):	320 at 2400
Specific torque (Nm/liter):	160.2
Mean effective pressure at max. power/max. torque (kPa):	1898.3/2062.1
Average piston speed (m/s):	16.1
Engine oil, capacity (l):	5
Cooling capacity (l):	7.1
Battery 12 V, capacity (Ah):	55
Alternator 14.2 V, capacity (W):	1704
Transmission	
Drive axle:	front wheel drive
Transmission, type:	6-speed manual
Gear ratios:	1st ratio: 3.82 2nd ratio: 2.16 3rd ratio: 1.48 4th ratio: 1.07 5th ratio: 0.88 6th ratio: 0.74 reverse ratio: 3.55 final drive ratio: 3.94
Clutch, type:	dry single plate
Body	
Seats:	2-7, variable seating system "Flex 7"
Drag coefficient (c _d):	0.31*
Frontal area (A in m ²):	2.45
Index (c _w xA):	0.76*
IDS chassis	
Wheel suspension front:	independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers
Wheel suspension rear:	compound link suspension, torsion tube design with 2 control arms miniblock coil springs
Anti roll bar:	twin tube gas pressure shock absorbers front

Brakes	
Brake circuits:	2, diagonal
Brakes front, diameter (mm):	ventilated disc, 321
Brakes rear, diameter (mm):	solid disc, 278
ABS:	standard equipment
TC Plus:	standard equipment
ESP Plus:	standard equipment
Weights and dimensions	
Length (mm):	4503
Width (mm):	1801
Height (mm):	1625
Wheelbase (mm):	2703
Overhang front/rear:	945/855
Track front/rear (mm):	1488/1510
Luggage capacity (l) ECIE (7/5/2 seats):	140/645/1820
Opening luggage compartment to ground (mm):	590
Cargo-area length (mm):	405/1088/1809
Cargo-area width (mm):	1114
Cargo-area height (mm):	970
Rim width (inch)(mm)/tire size:	8Jx18/225/40 R18-92Y
Turning clearance circle/turning circle (m):	11.85/11.23
Steer. wheel turns lock/lock:	2.5
Steering, ratio:	electr.-hydr. power steering, 14
Steering wheel outside diameter (mm):	380
Kerb weight/max. allowable weight/additional load (kg):	1665/2200/535
Power to weight ratio (kg/kW; kg/hp)(empty):	9.4; 6.9
Max. axle load front/rear (kg):	1100/1115
Trailer load braked/unbraked (kg):	1500/750
Trailer hook weight/roof load (kg):	75/75
Fuel tank capacity (l), location:	58, under rear seats
Performance	
Top speed (km/h)*:	231
Acceleration 0-100 km/h (sec)*:	7.8
Acc. 80-120 km/h in 5th gear (sec)*:	8.5
Pass-by noise (dB(A)):	75
Fuel:	unleaded premium
Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased consumption and CO ₂ values. urban: 13.4 extra-urban: 7.4 total: 9.6
CO ₂ emission (g/km):	230
Emission class:	Euro 4
Maintenance	
Service intervals:	General inspection after 24 months or 60.000 km; interim service with oil exchange after 12 months or 30.000 km
* Basic model	
* Kerb weight (70156 EEC) and 125 kg payload	
Specifications may differ outside Germany	