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

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Model year:	2006	Brakes	
Date:	10/2005	Brake circuits:	2, diagonal
English Jaka		Brakes front, diameter (mm):	ventilated disc, 321
Engine data		Brakes rear, diameter (mm):	solid disc, 278
Engine:	2.0 Turbo ECOTEC	ABS:	standard equipment
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined	TC Plus:	standard equipment
Cooling system:	with liquid, sealed circuit	ESP Plus:	standard equipment
Cylinders, number:	4		
Bore (mm):	86	Weights and dimensions	
Stroke (mm):	86		
Displacement (cc):	1998	Length (mm):	4290
Compression ratio:	8.8:1	Width (mm):	1753
Engine, type:	in line; 5 main bearings	Height (mm):	1405
Cylinder block/head, material:	cast iron/aluminum	Wheelbase (mm):	2614
Camshaft(s), location:	2 overhead (DOHC), driven by toothed belt	Overhang front/rear:	910/766
Valve train:	hydraulic bucket tappets	Track front/rear (mm):	1488/1485
Valve, arrangement:	v; 4 per cylinder	Luggage capacity (I) ECIE:	340-1070 (with tire repair kit)
Valve adjustment:	automatic - hydraulic		302-1032 (with space-saver spare wheel/tire)
Fuel system:	sequential multi point fuel injection	Opening luggage compartment to ground (mm):	695
Ignition system:	electr. ignition map, ignition coil direct to spark plug	Cargo-area length (mm):	819-1522
Fuel pump:	electric, in tank	Cargo-area width (mm):	944
Emission control system:	3-way cat. conv. with 2 oxygen sensors	Cargo-area height (mm):	772
Charger system:	turbo with intercooler	Rim width (inch)(mm)/tire size:	8Jx18/225/40 R18-92Y
Max. boost pressure (bar):	0.85	Turning clearance circle/turning circle (m):	11.57/10.92
Output (kW/hp CEE at 1/min):	177/240 at 5600	Steer. wheel turns lock/lock:	2.5
Specific power (kW/l; hp/l):	88.6; 120.1	Steering, ratio:	electrhydr. power steering, 14
Max. torque (Nm at 1/min):	320 at 2400	Steering wheel outside diameter (mm):	370
Specific torque (Nm/liter):	160.2	Kerb weight/max. allowable weight/additional load (kg	
Mean effective pressure at		Power to weight ratio (kg/kW; kg/hp)(empty):	7.9; 5.8
max. power/max. torque (kPa):	1898.3/2062.1	Max. axle load front/rear (kg):	1015/840
Average piston speed (m/s):	16.1	Trailer load braked/unbraked (kg):	1500/680
Engine oil, capacity (I):	5	Trailer hook weight/roof load (kg):	75/75
Cooling capacity (I):	7.1	Fuel tank capacity (I), location:	52, under rear seats
Battery 12 V, capacity (Ah):	55		
Alternator 14.2 V, capacity (W):	1704	Performance	
		Top speed (km/h)*:	244
Transmission		Acceleration 0-100 km/h (sec)*:	6.4
Drive axle:	front wheel drive	Acc. 80-120 km/h in 5th gear (sec)*:	6.5
		Pass-by noise (dBA):	75
Transmission, type: Gear ratios:	6-speed manual 1st ratio: 3.82 2nd ratio: 2.16 3rd ratio: 1.48	Fuel:	unleaded premium
Geal fallos.	4th ratio: 1.07 5th ratio: 0.88 6th ratio: 0.74	Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU.
	reverse ratio: 3.55 final drive ratio: 3.83	, , , , , , , , , , , , , , , , , , , ,	Additional equipment can lead to increased
Clutch, type:	dry single plate		consumption and CO <sub>2</sub> values.
Giutori, type.	dry single plate		urban: 13.0
Darder			extra-urban: 7.0
Body			total: 9.2
Seats:	5	CO <sub>2</sub> emission (g/km):	221
Drag coefficient (c <sub>n</sub> ):	0.34+	Emission class:	Euro 4
Frontal area (A in m²):	2.03		
Index (c "xA):	0.68+	Maintenance	
			Olinetitt
IDS chassis		Service intervals:	General inspection after 24 months or 60.000 km;
Wheel suspension front:	independent, wishbone on closed subframe,		interim service with oil exchange after 12 months or
whice suspension none.	McPherson struts, twin tube gas pressure shock absorbers		30.000 km
Wheel suspension rear:	compound link suspension,		
villedi suspelisivil leal.	torsion tube design with 2 control arms	+ Dania madal	
	miniblock coil springs	* Basic model	
	twin tube gas pressure shock absorbers	* Kerb weight (70156 EEC) and 125 kg payload	
Anti roll bar:	front	Specifications may differ outside Germany	
And foil bal.	HOIR		

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

Vectra GIS OPC 2.8 188	3kW/255hp 6-speed sports sedan 5 doors
Model year: Date:	2006 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 (I):	6
Cooling capacity (I):	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 <sub>s</sub> ):	0.29⁺
Frontal area (A in m²):	2.18
Index (c "xA):	0.63 <sup>+</sup>
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IDC chancia	

### **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:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

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 (I) 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): 1600/750
Trailer hook weight/roof load (kg): 78/100

Fuel tank capacity (I), 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 CO2 values.

urban: 15.5 extra-urban: 7.4 total: 10.4

CO<sub>2</sub> 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

\* 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

Vectra Station Wagon OPC 2.8 188kW/255hp 6-speed station wagon 5 doors				
Model year:	2006	Brakes		
Date:	10/2005		0. diamond	
		Brake circuits: Brakes front, diameter (mm):	2, diagonal ventilated disc. 345	
Engine data		Brakes rear, diameter (mm):	ventilated disc, 343 ventilated disc, 292	
Engine:	2.8 ECOTEC	ABS:	standard equipment	
Engine, location:	front, transverse in front of axle, 2° backward inclined	TC Plus:	standard equipment	
Cooling system:	with liquid, sealed circuit	ESP Plus:	standard equipment	
Cylinders, number:	6			
Bore (mm):	89	Weights and dimensions		
Stroke (mm):	74.0	Length (mm):	4870	
Displacement (cc):	2792	Width (mm):	1798	
Compression ratio:	9.5:1	Height (mm):	1487	
Engine, type: Cylinder block/head, material:	v; 5 main bearings aluminum/aluminum	Wheelbase (mm):	2830	
Camshaft(s), location:	4 overhead (DOHC), driven by chain	Overhang front/rear:	944/1096	
Valve train:	roller rocker with hydraulic bucket tappets	Track front/rear (mm):	1536/1525	
Valve, arrangement:	v; 4 per cylinder	Cargo-area volume (m³) ECIE:	530-1850	
Valve adjustment:	automatic - hydraulic	Cargo-area length (mm):	1175 (max. 2046)	
Fuel system:	sequential multi point fuel injection	Cargo-area width (mm):	1060 (max. 1079)	
Ignition system:	electr. ignition map, ignition coil direct to spark plug	Cargo-area height (mm):	841	
Fuel pump:	electric, in tank	Rim width (inch)(mm)/tire size:	8Jx18/235/40 R18-95W	
Emission control system:	3-way cat. conv. with 2 oxygen sensors	Turning clearance circle/turning circle (m):	12.40/11.68	
Max. boost pressure (bar):	0.7	Steer. wheel turns lock/lock: Steering, ratio:	2.75 electrhydr. power steering, 15.2	
Output (kW/hp CEE at 1/min):	188/255 at 5500	Steering, ratio. Steering wheel outside diameter (mm):	380	
Specific power (kW/l; hp/l):	67.3; 91.3	Kerb weight/max. allowable weight/additional load (kg)		
Max. torque (Nm at 1/min):	355 at 1800 127.1	Power to weight ratio (kg/kW; kg/hp)(empty):	8.6: 6.3	
Specific torque (Nm/liter): Mean effective pressure at	127.1	Max. axle load front/rear (kg):	1105/1100	
max. power/max. torque (kPa):	1469.1/1623.7	Trailer load braked/unbraked (kg):	1800/750	
Average piston speed (m/s):	13.7	Trailer hook weight/roof load (kg):	85/75	
Engine oil, capacity (I):	6	Fuel tank capacity (I), location:	60, under rear seats	
Cooling capacity (I):	9.6			
Battery 12 V, capacity (Ah):	70	Performance		
Alternator 14.2 V, capacity (W):	2130	Top speed (km/h)*:	254	
		Acceleration 0-100 km/h (sec)*:	6.9	
Transmission		Acc. 80-120 km/h in 5th gear (sec)*:	7.7	
Drive axle:	front wheel drive	Pass-by noise (dBA):	75	
Transmission, type:	6-speed manual	Fuel:	unleaded premium 95 RON	
Gear ratios:	1st ratio: 3.77 2nd ratio: 2.04 3rd ratio: 1.37	Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU.	
	4th ratio: 1.04 5th ratio: 0.85 6th ratio: 0.71		Additional equipment can lead to increased	
	reverse ratio: 3.54 final drive ratio: 3.54		consumption and CO <sub>2</sub> values. urban: 15.6	
Clutch, type:	dry single plate		extra-urban: 7.5	
Б			total: 10.5	
Body		CO <sub>2</sub> emission (g/km):	252	
Seats:	5	Emission class:	Euro 4	
Drag coefficient (c <sub>p</sub> ):	0.32 <sup>+</sup>			
Frontal area (A in m²):	2.23	Maintenance		
Index (c <sub>w</sub> xA):	0.71*	Service intervals:	General inspection after 24 months or 60.000 km;	
100.01		Ocivide intervals.	interim service with oil exchange after 12 months or	
IDS Chassis			30.000 km	
Wheel suspension front:	independent, wishbone, on subframe, McPherson struts,			
•	gas pre-loaded struts			
Wheel suspension rear:	multi-link suspension, 3 transverse+1longitudinal arm,	* Basic model		
A . C . II I	coil springs, gas-filled shock absorbers	* Kerb weight (70156 EEC) and 125 kg payload		
Anti roll bar:	front + rear	Specifications may differ outside Germany		

<sup>\*</sup> 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	Brakes	
Date:	10/2005	Brake circuits:	2, diagonal
Funina data		Brakes front, diameter (mm):	ventilated disc, 321
Engine data		Brakes rear, diameter (mm):	solid disc, 278
Engine:	2.0 Turbo ECOTEC	ABS:	standard equipment
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined	TC Plus:	standard equipment
Cooling system: Cylinders, number:	with liquid, sealed circuit 4	ESP Plus:	standard equipment
Bore (mm):	86	VAT-1-1-(	
Stroke (mm):	86	Weights and dimensions	
Displacement (cc):	1998	Length (mm):	4503
Compression ratio:	8.8:1	Width (mm):	1801
Engine, type:	in line; 5 main bearings	Height (mm): Wheelbase (mm):	1625 2703
Cylinder block/head, material:	cast iron/aluminum	Overhang front/rear:	945/855
Camshaft(s), location:	2 overhead (DOHC), driven by toothed belt	Track front/rear (mm):	1488/1510
Valve train: Valve, arrangement:	hydraulic bucket tappets v; 4 per cylinder	Luggage capacity (I) ECIE (7/5/2 seats):	140/645/1820
Valve, arrangement:	automatic - hydraulic	Opening luggage compartment to ground (mm):	590
Fuel system:	sequential multi point fuel injection	Cargo-area length (mm):	405/1088/1809
Ignition system:	electr. ignition map, ignition coil direct to spark plug	Cargo-area width (mm):	1114
Fuel pump:	electric, in tank	Cargo-area height (mm):	970
Emission control system:	3-way cat. conv. with 2 oxygen sensors	Rim width (inch)(mm)/tire size:	8Jx18/225/40 R18-92Y
Charger system:	turbo with intercooler	Turning clearance circle/turning circle (m): Steer. wheel turns lock/lock:	11.85/11.23 2.5
Max. boost pressure (bar):	0.85	Steering, ratio:	electrhydr. power steering, 14
Output (kW/hp CEE at 1/min):	177/240 at 5600	Steering, ratio: Steering wheel outside diameter (mm):	380
Specific power (kW/l; hp/l): Max. torque (Nm at 1/min):	88.6; 120.1 320 at 2400	Kerb weight/max. allowable weight/additional load (kg)	
Specific torque (Nm/liter):	160.2	Power to weight ratio (kg/kW; kg/hp)(empty):	9.4; 6.9
Mean effective pressure at	100.2	Max. axle load front/rear (kg):	1100/1115
max. power/max. torque (kPa):	1898.3/2062.1	Trailer load braked/unbraked (kg):	1500/750
Average piston speed (m/s):	16.1	Trailer hook weight/roof load (kg):	75/75
Engine oil, capacity (I):	5	Fuel tank capacity (I), location:	58, under rear seats
Cooling capacity (I):	7.1	<b>5</b> /	
Battery 12 V, capacity (Ah):	55	Performance	
Alternator 14.2 V, capacity (W):	1704	Top speed (km/h)*:	231
Tananasiasias		Acceleration 0-100 km/h (sec)*:	7.8
Transmission		Acc. 80-120 km/h in 5th gear (sec)*:	8.5
Drive axle:	front wheel drive	Pass-by noise (dBA):	75
Transmission, type:	6-speed manual	Fuel consumption (liter/100 km):	unleaded premium  Measured according to EU guideline 99/100/EU.
Gear ratios:	1st ratio: 3.82 2nd ratio: 2.16 3rd ratio: 1.48	Fuel consumption (liter/100 km):	Additional equipment can lead to increased
	4th ratio: 1.07 5th ratio: 0.88 6th ratio: 0.74 reverse ratio: 3.55 final drive ratio: 3.94		consumption and CO <sub>2</sub> values.
Clutch, type:	dry single plate		urban: 13.4
Oluton, typo.	ary sirigic plate		extra-urban: 7.4
Body			total: 9.6
•	0.7	CO <sub>2</sub> emission (g/km):	230
Seats:	2-7, variable seating system "Flex 7" 0.31*	Emission class:	Euro 4
Drag coefficient (c₀): Frontal area (A in m²):	2.45	• • • •	
Index (c "xA):	0.76 <sup>+</sup>	Maintenance	
aox (o <sub>W</sub> /o y.	5 5	Service intervals:	General inspection after 24 months or 60.000 km;
IDS chassis			interim service with oil exchange after 12 months or
	independent wishbons on alocaed subframe		30.000 km
Wheel suspension front:	independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers		
Wheel suspension rear:	compound link suspension,	* Basic model	
	torsion tube design with 2 control arms	* Kerb weight (70156 EEC) and 125 kg payload	
	miniblock coil springs twin tube gas pressure shock absorbers	Specifications may differ outside Germany	
Anti roll bar:	front		
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