Astra Caravan 1.3 CDTI 66kW/90hp 6-speed station wagon 5 doors

Model year: 2006 **Brakes** Date: 08/2005 Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Engine data Brakes rear, diameter (mm): solid disc. 264 Engine: 1.3 CDTL 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: 69.6 Bore (mm): Weights and dimensions Stroke (mm): 82 Length (mm): 4515 1248 Displacement (cc): Width (mm): 1794 Compression ratio: 18:1 Height (mm): 1500 Engine, type: in line; 5 main bearings Wheelbase (mm): 2703 Cylinder block/head, material: cast iron/alumnium allov Track front/rear (mm): 1488/1488 2 overhead (DOHC), driven by chain Camshaft(s), location: Luggage capacity (I) ECIE: 500(max, 540)-max, 1590 (with tire repair kit) Valve train: indirect roller cam followers, hydraulic tappets Opening luggage compartment to ground (mm): Valve, arrangement: parallel: 4 per cylinder Cargo-area length (mm): 1085(max. 1122)-max. 1819 Valve adjustment: automatic - hydraulic Cargo-area width (mm): 1088 Fuel system: diesel direct injection, common rail Cargo-area height (mm): 862 Fuel pump: mecanical Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H Emission control system: 2-way cat. conv., exhaust gas recirculation Turning clearance circle/turning circle (m): 11.10/10.85 turbo with intercooler Charger system: Steer, wheel turns lock/lock: Output (kW/hp CEE at 1/min): 2.7 66/90 at 4000 Steering, ratio: electr.-hydr. power steering, 15 Specific power (kW/l; hp/l): 52.9: 72.1 Steering wheel outside diameter (mm): 370 Max. torque (Nm at 1/min): 200 at 1750-2500 Kerb weight/max, allowable weight/additional load (kg): 1380/1905/525 Specific torque (Nm/liter): 160.3 Power to weight ratio (kg/kW; kg/hp)(empty): 20.9: 15.3 Mean effective pressure at Max. axle load front/rear (kg): 880/940 max. power/max. torque (kPa): 1586.5/2014.7 Trailer load braked/unbraked (kg): 1300/690 Average piston speed (m/s): 10.9 Trailer hook weight/roof load (kg): 75/100 Engine oil, capacity (I): 3.5 Fuel tank capacity (I), location: 52, under luggage compartment Cooling capacity (I): 5.6 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 994 Performance Top speed (km/h)*: 172 Transmission Acceleration 0-100 km/h (sec)*: 14.1 Acc. 80-120 km/h in 5th gear (sec)*: 19.5 Drive axle: front wheel drive Pass-by noise (dBA): 72 Transmission, type: 6-speed manual Fuel: Diesel Gear ratios: 1st ratio: 4.27 2nd ratio: 2.16 3rd ratio: 1.3 Fuel consumption (liter/100 km): Measured according to EU guideline 99/100/EU. 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 Additional equipment can lead to increased reverse ratio: 3.82 final drive ratio: 3.72 consumption and CO2 values. Clutch, type: dry single plate urban: extra-urban: 4.0 Body total: Seats: 5 CO2 emission (g/km): 130 Drag coefficient (c_a): 0.31^{+} Emission class: Euro 4 Frontal area (A in m2): 2.08 0.65+ Index (c _xA): Maintenance Service intervals: General inspection after 24 months or 60,000 km: **IDS** chassis interim service with oil exchange after 12 months or Wheel suspension front: independent, wishbone on closed subframe, 30.000 km McPherson struts, twin tube gas pressure shock absorbers Wheel suspension rear: compound link suspension, torsion tube design with 2 control arms * Basic model miniblock coil springs

twin tube gas pressure shock absorbers

front

Anti roll bar

6.2

4.8

^{*} Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

Astra Caravan 1.4 66kW/90hp 5-speed station wagon 5 doors

front

Anti roll bar:

| Model year: | 2006 | Brakes | |
|---|---|---|--|
| Date: | 08/2005 | Brake circuits: | 2, diagonal |
| | | Brakes front, diameter (mm): | ventilated disc, 280 |
| Engine data | | Brakes rear, diameter (mm): | solid disc, 264 |
| Engine: | 1.4 TWINPORT 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 | ESP Flus. | Standard equipment |
| Bore (mm): | 73.4 | | |
| | 80.6 | Weights and dimensions | |
| Stroke (mm): | | Length (mm): | 4515 |
| Displacement (cc): | 1364 | Width (mm): | 1794 |
| Compression ratio: | 10.5:1 | Height (mm): | 1500 |
| Engine, type: | in line; 5 main bearings | Wheelbase (mm): | 2703 |
| Cylinder block/head, material: | cast iron/aluminum | | |
| Camshaft(s), location: | 2 overhead (DOHC), | Track front/rear (mm): | 1488/1488 |
| Valve train: | indirect roller cam followers, hydraulic tappets | Luggage capacity (I) ECIE: | 500(max. 540)-max. 1590 (with tire repair kit) |
| Valve, arrangement: | v; 4 per cylinder | Opening luggage compartment to ground (mm): | 591 |
| Valve adjustment: | hydraulic | Cargo-area length (mm): | 1085(max. 1122)-max. 1819 |
| Fuel system: | sequential multi point fuel injection | Cargo-area width (mm): | 1088 |
| gnition system: | electr. ignition map (EST) + knock sensor | Cargo-area height (mm): | 862 |
| Fuel pump: | electric, in tank | Rim width (inch)(mm)/tire size: | 6.5Jx15/195/65 R15 H |
| Emission control system: | 3-way cat. conv. with 2 oxygen sensors | Turning clearance circle/turning circle (m): | 11.10/10.85 |
| Output (kW/hp CEE at 1/min): | 66/90 at 5600 | Steer. wheel turns lock/lock: | 2.7 |
| Specific power (kW/I; hp/I): | 48.4: 66.0 | Steering, ratio: | electrhydr. power steering, 15 |
| | - 1 | Steering wheel outside diameter (mm): | 370 |
| Max. torque (Nm at 1/min): | 125 at 4000 | Kerb weight/max. allowable weight/additional load (kg | |
| Specific torque (Nm/liter): | 91.6 | Power to weight ratio (kg/kW; kg/hp)(empty): | 19.4; 14.2 |
| Mean effective pressure at | | Max. axle load front/rear (kg): | 880/940 |
| max. power/max. torque (kPa): | 1036.9/1152.1 | | |
| Average piston speed (m/s): | 15.0 | Trailer load braked/unbraked (kg): | 900/640 |
| Engine oil, capacity (I): | 3.5 | Trailer hook weight/roof load (kg): | 75/100 |
| Cooling capacity (I): | 5.6 | Fuel tank capacity (I), location: | 52, under luggage compartment |
| Battery 12 V, capacity (Ah): | 44 | | |
| Alternator 14.2 V, capacity (W): | 994 | Performance | |
| , , , , | | Top speed (km/h)*: | 178 |
| Transmission | | Acceleration 0-100 km/h (sec)*: | 14.1 |
| | | | |
| Drive axle: | front wheel drive | Acc. 80-120 km/h in 5th gear (sec)*: | 19.5 |
| Fransmission, type: | 5-speed manual | Pass-by noise (dBA): | 71 |
| Gear ratios: | 1st ratio: 3.73 2nd ratio: 2.14 3rd ratio: 1.41 | Fuel: | unleaded premium 95 RON |
| | 4th ratio: 1.12 5th ratio: 0.89 | Fuel consumption (liter/100 km): | Measured according to EU guideline 99/100/EU. |
| | reverse ratio: 3.31 final drive ratio: 4.18 | | Additional equipment can lead to increased |
| Clutch, type: | dry single plate | | consumption and CO ₂ values. |
| J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | ary origin plato | | urban: 8.2 - 8.4 |
| Dody. | | | extra-urban: 5.2 - 5.4 |
| 3ody | | | total: 6.3 - 6.5 |
| Seats: | 5 | CO ₂ emission (g/km): | 151 - 156 |
| Drag coefficient (c _s): | 0.31+ | Emission class: | Euro 4 |
| Frontal area (A in m²): | 2.08 | 253.511 01000. | |
| ndex (c _xA): | 0.65 ⁺ | Maintananaa | |
| | 3.00 | Maintenance | |
| IDC abassis | | Service intervals: | General inspection after 24 months or 60.000 km; |
| IDS chassis | | | interim service with oil exchange after 12 months of |
| Wheel suspension front: | independent, wishbone on closed subframe, | | 30.000 km |
| | McPherson struts, twin tube gas pressure shock absorbers | | 551555 III.I |
| Vheel suspension rear: | compound link suspension, | | |
| | torsion tube design with 2 control arms | † Pania madal | |
| | miniblock coil springs | * Basic model | |
| | | * Kerb weight (70156 EEC) and 125 kg payload | |
| Anti roll har: | twin tube gas pressure shock absorbers | Specifications may differ outside Germany | |
| | | | |

^{*} Kerb weight (70156 EEC) and 125 kg payload Specifications may differ outside Germany

Actra Caravan 16 77kW/105hn 5-speed station wagon 5 doors

front

Anti roll bar:

| Model year: | 2006 | Brakes | |
|-------------------------------------|---|---|--|
| Date: | 08/2005 | Brake circuits: | 2, diagonal |
| | | Brakes front, diameter (mm): | ventilated disc, 280 |
| Engine data | | Brakes rear, diameter (mm): | solid disc, 264 |
| Engine: | 1.6 TWINPORT ECOTEC | ABS: | standard equipment |
| Engine, location: | front, transverse in front of axle, 7° 50' forward inclined | | |
| Cooling system: | with liquid, sealed circuit | TC Plus: | standard equipment |
| | 4 | ESP Plus: | standard equipment |
| Cylinders, number: | | | |
| Bore (mm): | 79 | Weights and dimensions | |
| Stroke (mm): | 81.5 | Length (mm): | 4515 |
| Displacement (cc): | 1598 | Width (mm): | 1794 |
| Compression ratio: | 10.5:1 | | |
| Engine, type: | in line; 5 main bearings | Height (mm): | 1500 |
| Cylinder block/head, material: | cast iron/aluminum | Wheelbase (mm): | 2703 |
| Camshaft(s), location: | 2 overhead (DOHC), driven by toothed belt | Track front/rear (mm): | 1488/1488 |
| Valve train: | direct, bucket tappets | Luggage capacity (I) ECIE: | 500(max. 540)-max. 1590 (with tire repair kit) |
| Valve, arrangement: | v; 4 per cylinder | Opening luggage compartment to ground (mm): | 591 |
| Valve adjustment: | mecanical | Cargo-area length (mm): | 1085(max. 1122)-max. 1819 |
| Fuel system: | sequential multi point fuel injection | Cargo-area width (mm): | 1088 |
| Ignition system: | electr. ignition map (EST) + knock sensor | Cargo-area height (mm): | 862 |
| Fuel pump: | electric, in tank | Rim width (inch)(mm)/tire size: | 6.5Jx15/195/65 R15 H |
| Emission control system: | 3-way cat. conv. with 2 oxygen sensors | Turning clearance circle/turning circle (m): | 11.10/10.85 |
| Output (kW/hp CEE at 1/min): | 77/105 at 6000 | Steer. wheel turns lock/lock: | 2.7 |
| Chapitia navvar (IAA/III hn/I): | 48.2; 65.7 | Steering, ratio: | electrhydr. power steering, 15 |
| Specific power (kW/l; hp/l): | | Steering wheel outside diameter (mm): | 370 |
| Max. torque (Nm at 1/min): | 150 at 3900 | Kerb weight/max. allowable weight/additional load (kg | |
| Specific torque (Nm/liter): | 93.9 | Power to weight ratio (kg/kW; kg/hp)(empty): | 17.1; 12.5 |
| Mean effective pressure at | | | 920/940 |
| max. power/max. torque (kPa): | 963.7/1180.1 | Max. axle load front/rear (kg): | |
| Average piston speed (m/s): | 16.3 | Trailer load braked/unbraked (kg): | 1100/650 |
| Engine oil, capacity (I): | 4 | Trailer hook weight/roof load (kg): | 75/100 |
| Cooling capacity (I): | 5.9 | Fuel tank capacity (I), location: | 52, under luggage compartment |
| Battery 12 V, capacity (Ah): | 55 | | |
| Alternator 14.2 V, capacity (W): | 1420 | Performance | |
| ,, , () | | Top speed (km/h)*: | 185 |
| Transmission | | Acceleration 0-100 km/h (sec)*: | 12.7 |
| | | | |
| Drive axle: | front wheel drive | Acc. 80-120 km/h in 5th gear (sec)*: | 16.9 |
| Transmission, type: | 5-speed manual | Pass-by noise (dBA): | 71 |
| Gear ratios: | 1st ratio: 3.73 2nd ratio: 2.14 3rd ratio: 1.41 | Fuel: | unleaded premium 95 RON |
| | 4th ratio: 1.12 5th ratio: 0.89 | Fuel consumption (liter/100 km): | Measured according to EU guideline 99/100/EU. |
| | reverse ratio: 3.31 final drive ratio: 3.94 | | Additional equipment can lead to increased |
| Clutch, type: | dry single plate | | consumption and CO ₂ values. |
| olutori, typo. | ary origin plate | | urban: 8.7 - 8.9 |
| D a alice | | | extra-urban: 5.5 - 5.7 |
| Body | | | total: 6.7 - 6.9 |
| Seats: | 5 | CO ₂ emission (g/km): | 161 - 166 |
| Drag coefficient (c _s): | 0.31 ⁺ | Emission class: | Euro 4 |
| Frontal area (A in m²): | 2.08 | Emission dass. | Luio 4 |
| Index (c "xA): | 0.65 ⁺ | Maintanana | |
| | 5.55 | Maintenance | |
| IDC abassis | | Service intervals: | General inspection after 24 months or 60.000 km; |
| IDS chassis | | | interim service with oil exchange after 12 months of |
| Wheel suspension front: | independent, wishbone on closed subframe, | | 30.000 km |
| r | McPherson struts, twin tube gas pressure shock absorbers | | 00:000 |
| Wheel suspension rear: | compound link suspension, | | |
| ss. suspension rout. | torsion tube design with 2 control arms | † Pagia model | |
| | miniblock coil springs | * Basic model | |
| | twin tube goe proceure abook absorbers | * Kerb weight (70156 EEC) and 125 kg payload | |
| Anti roll har: | twin tube gas pressure shock absorbers | Specifications may differ outside Germany | |
| | | | |

Astra Caravan 1.6 77kW/105hp Easytronic station wagon 5 doors

| Astra Caravan 1.6 | 77kW/105hp Easytronic station wagon 5 doors |
|---|---|
| Model year: Date: | 2006 08/2005 |
| Engine data | |
| Engine: Engine, location: Cooling system: | 1.6 TWINPORT ECOTEC front, transverse in front of axle, 7° 50' forward inclined with liquid, sealed circuit |
| Cylinders, number: | 4 79 |
| Bore (mm): Stroke (mm): | 79 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 arrangement: | direct, bucket tappets |
| Valve, arrangement: Valve adjustment: | v; 4 per cylinder mecanical |
| Fuel system: | sequential multi point fuel injection |
| Ignition system: | electr. ignition map (EST) + knock sensor |
| Fuel pump: | electric, in tank |
| Emission control system: | 3-way cat. conv. with 2 oxygen sensors |
| Output (kW/hp CEE at 1/min): | 77/105 at 6000 |
| Specific power (kW/l; hp/l): | 48.2; 65.7 |
| Max. torque (Nm at 1/min): Specific torque (Nm/liter): | 150 at 3900 93.9 |
| Mean effective pressure at | 93.9 |
| max. power/max. torque (kPa): | 963.7/1180.1 |
| Average piston speed (m/s): | 16.3 |
| Engine oil, capacity (I): | 4 |
| Cooling capacity (I): | 5.9 |
| Battery 12 V, capacity (Ah): | 55 |
| Alternator 14.2 V, capacity (W): | 1420 |
| Transmission | |
| Drive axle: | front wheel drive |
| Transmission, type: | Easytronic, automated manual transmission |
| Gear ratios: | 1st ratio: 3.73 2nd ratio: 1.96 3rd ratio: 1.32 |
| | 4th ratio: 0.95 5th ratio: 0.76 |
| Clutch, type: | reverse ratio: 3.31 final drive ratio: 3.94 single-plate clutch, electrically operated |
| Oluton, type. | single-place duton, electrically operated |
| Body | |
| Seats: | 5 |
| Drag coefficient (c _D): | 0.31+ |
| Frontal area (A in m²): | 2.08 |
| Index (c _w xA): | 0.65+ |
| IDS chassis | |
| Wheel suspension front: | independent, wishbone on closed subframe, |
| NA/L | McPherson struts, twin tube gas pressure shock absorbers |
| Wheel suspension rear: | compound link suspension, |
| | torsion tube design with 2 control arms miniblock coil springs |
| | twin tube and procesure about absorbers |

front

Anti roll bar:

twin tube gas pressure shock absorbers

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, 264

Standard equipment

Standard equipment

ESP Plus:

Standard equipment

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1315/1840/525
Power to weight ratio (kg/kW; kg/hp)(empty): 17.1; 12.5
Max. axle load front/rear (kg): 920/940
Trailer load braked/unbraked (kg): 1100/650
Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 185
Acceleration 0-100 km/h (sec)*: 13.7
Pass-by noise (dBA): 71

Fuel: unleaded premium 95 RON

Fuel consumption (liter/100 km): Measured according to EU guide

Measured according to EU guideline 99/100/EU.
Additional equipment can lead to increased

consumption and CO₂ values. urban: 8.6 - 8.8 extra-urban: 5.4 - 5.6 total: 6.6 - 6.8

CO₂ emission (g/km): 158 - 163 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

Model year: 2006 Date: 08/2005 Engine data Engine: 1.7 CDTL ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 79 Bore (mm): 86 Stroke (mm): 1686 Displacement (cc): Compression ratio: 18.4:1 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: direct, bucket tappets Valve, arrangement: parallel: 4 per cylinder Valve adjustment: mecanical Fuel system: diesel direct injection, common rail Fuel pump: mecanical Emission control system: oxidizing catalytic converter Charger system: turbo with intercooler Max. boost pressure (bar): 1.0 Output (kW/hp CEE at 1/min): 59/80 at 4400 Specific power (kW/l: hp/l): 35.0: 47.4 Max. torque (Nm at 1/min): 170 at 1800-2800 Specific torque (Nm/liter): 100.8 Mean effective pressure at max. power/max. torque (kPa): 954.4/1267.6 Average piston speed (m/s): 12.6 Engine oil, capacity (I): 4.5 Cooling capacity (I): 6.8 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1420 Transmission Drive axle: front wheel drive Transmission, type: 5-speed manual 1st ratio: 3.73 2nd ratio: 1.96 3rd ratio: 1.31 Gear ratios: 4th ratio: 0.95 5th ratio: 0.76 reverse ratio: 3.31 final drive ratio: 3.74 Clutch, type: dry single plate Body Seats: Drag coefficient (c_): 0.31+ Frontal area (A in m2): 2.08

Index (c ..xA): 0.65^{+}

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

twin tube gas pressure shock absorbers

Anti roll bar: front

Brakes

Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Brakes rear, diameter (mm): solid disc. 264 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4515 Width (mm): 1794 Height (mm): 1500 Wheelbase (mm): 2703 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 500(max, 540)-max, 1590 (with tire repair kit)

Opening luggage compartment to ground (mm):

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer, wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max, allowable weight/additional load (kg): 1380/1905/525 Power to weight ratio (kg/kW; kg/hp)(empty): 23.4: 17.3 Max. axle load front/rear (kg): 975/940 Trailer load braked/unbraked (kg): 1200/690 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 168 Acceleration 0-100 km/h (sec)*: 15.4 Acc. 80-120 km/h in 5th gear (sec)*: 19.6 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 CO2 values. urban: 6.3 - 6.4

extra-urban: 4.1 - 4.2

4.9 - 5.0total:

13 - 1352 Euro 4

Maintenance

Emission class:

CO2 emission (g/km):

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

2006

08/2005

Model year:

Anti roll bar:

Date:

Engine data Engine: 1.7 CDTL ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 79 Bore (mm): 86 Stroke (mm): 1686 Displacement (cc): Compression ratio: 18.4:1 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: direct, bucket tappets Valve, arrangement: parallel: 4 per cylinder Valve adjustment: mecanical Fuel system: diesel direct injection, common rail Fuel pump: mecanical Emission control system: oxidizing catalytic converter turbo with intercooler Charger system: Max. boost pressure (bar): 1.18 Output (kW/hp CEE at 1/min): 74/100 at 4400 Specific power (kW/l: hp/l): 43.9: 59.3 Max. torque (Nm at 1/min): 240 at 2300 Specific torque (Nm/liter): 142.3 Mean effective pressure at max. power/max. torque (kPa): 1197.0/1789.6 Average piston speed (m/s): 12.6 Engine oil, capacity (I): 5 Cooling capacity (I): 6.8 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1420 Transmission Drive axle: front wheel drive Transmission, type: 5-speed 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: 3.95 Clutch, type: dry single plate Body Seats: Drag coefficient (c_): 0.31+ Frontal area (A in m2): 2.08 Index (c ..xA): 0.65^{+} **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

twin tube gas pressure shock absorbers

miniblock coil springs

front

Brakes

Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Brakes rear, diameter (mm): solid disc. 264 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4515 Width (mm): 1794 Height (mm): 1500 Wheelbase (mm): 2703 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 500(max, 540)-max, 1590 (with tire repair kit)

Opening luggage compartment to ground (mm):

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer, wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max, allowable weight/additional load (kg): 1393/1935/542 Power to weight ratio (kg/kW; kg/hp)(empty): 18.8: 13.9 Max. axle load front/rear (kg): 1010/940 Trailer load braked/unbraked (kg): 1400/690 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 180 Acceleration 0-100 km/h (sec)*: 12.5 Acc. 80-120 km/h in 5th gear (sec)*: 12.7 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: 6.4 - 6.5

extra-urban: 4.2 - 4.3

total: 5 - 5.1

135 - 138

CO2 emission (g/km):

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

Model year: 2006 Date: 08/2005 Engine data Engine: 1.7 CDTL ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 79 Bore (mm): 86 Stroke (mm): 1686 Displacement (cc): Compression ratio: 18.4:1 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: direct, bucket tappets Valve, arrangement: parallel: 4 per cylinder Valve adjustment: mecanical Fuel system: diesel direct injection, common rail Fuel pump: mecanical Emission control system: oxidizing catalytic converter turbo with intercooler Charger system: Max. boost pressure (bar): 1.18 Output (kW/hp CEE at 1/min): 74/100 at 4400 Specific power (kW/l: hp/l): 43.9: 59.3 Max. torque (Nm at 1/min): 240 at 2300 Specific torque (Nm/liter): 142.3 Mean effective pressure at max. power/max. torque (kPa): 1197.0/1789.6 Average piston speed (m/s): 12.6 Engine oil, capacity (I): 5 Cooling capacity (I): 6.8 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1420 Transmission

Drive axle: front wheel drive Transmission, type: 6-speed manual Gear ratios:

1st ratio: 3.82 2nd ratio: 2.05 3rd ratio: 1.30 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 reverse ratio: 3.55 final drive ratio: 3.65

Clutch, type: dry single plate

Body

Seats: Drag coefficient (c_): 0.31+ Frontal area (A in m2): 2.08 Index (c ..xA): 0.65^{+}

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

twin tube gas pressure shock absorbers

Anti roll bar: front

Brakes

Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Brakes rear, diameter (mm): solid disc. 264 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4515 Width (mm): 1794 Height (mm): 1500 Wheelbase (mm): 2703 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 500(max, 540)-max, 1590 (with tire repair kit)

Opening luggage compartment to ground (mm):

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer, wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max, allowable weight/additional load (kg): 1393/1935/542 Power to weight ratio (kg/kW; kg/hp)(empty): 18.8: 13.9 Max. axle load front/rear (kg): 1010/940 Trailer load braked/unbraked (kg): 1400/690 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 180 Acceleration 0-100 km/h (sec)*: 12.5 Acc. 80-120 km/h in 5th gear (sec)*: 12.7 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: 6.4 - 6.5extra-urban: 4.2 - 4.3

total: 5 - 5.1

135 - 138

Emission class: Euro 4

Maintenance

CO2 emission (g/km):

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

Astra Caravan 1.8 92kW/125hp 5-speed station wagon 5 doors Model year: 2006 Date: 08/2005 Engine data Engine: 1.8 FCOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 80.5 Bore (mm): 88.2 Stroke (mm): 1796 Displacement (cc): 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: hvdraulic 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): 92/125 at 5600 Specific power (kW/l: hp/l): 51.2: 69.6 Max. torque (Nm at 1/min): 170 at 3800 Specific torque (Nm/liter): 94.7 Mean effective pressure at max. power/max. torque (kPa): 1097.7/1190.0 Average piston speed (m/s): 16.5 Engine oil, capacity (I): 4.25 Cooling capacity (I): 5.9 Battery 12 V, capacity (Ah): 44 Alternator 14.2 V, capacity (W): 994 Transmission Drive axle: front wheel drive Transmission, type: 5-speed 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_a): 0.31^{+} Frontal area (A in m2): 2.08 0.65+ Index (c _xA): **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

twin tube gas pressure shock absorbers

Anti roll bar front **Brakes**

Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Brakes rear, diameter (mm): solid disc. 264 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4515 Width (mm): 1794 Height (mm): 1500 Wheelbase (mm): 2703 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 500(max, 540)-max, 1590 (with tire repair kit)

Opening luggage compartment to ground (mm):

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer, wheel turns lock/lock: 2.7

Steering, ratio:

electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max, allowable weight/additional load (kg): 1325/1850/525 Power to weight ratio (kg/kW; kg/hp)(empty): 14.4: 10.6 Max. axle load front/rear (kg): 930/940 Trailer load braked/unbraked (kg): 1300/660 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 198 Acceleration 0-100 km/h (sec)*: 10.9 Acc. 80-120 km/h in 5th gear (sec)*: 14.2 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: 10.5 - 10.7

extra-urban: 6.2 - 6.4

total: 7.8 - 8.0

187 - 192

CO2 emission (g/km): 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

Astra Caravan 1.8 92kW/125hp 4-speed autom. station wagon 5 doors Model year: 2006 Date: 08/2005 Engine data Engine: 1.8 FCOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 80.5 Bore (mm): 88.2 Stroke (mm): 1796 Displacement (cc): 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: 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): 92/125 at 5600 Specific power (kW/l: hp/l): 51.2: 69.6 Max. torque (Nm at 1/min): 170 at 3800 Specific torque (Nm/liter): 94.7 Mean effective pressure at max. power/max. torque (kPa): 1097.7/1190.0 Average piston speed (m/s): 16.5 Engine oil, capacity (I): 4.25 Cooling capacity (I): 5.9 Battery 12 V, capacity (Ah): 44 Alternator 14.2 V, capacity (W): 994 Transmission Drive axle: front wheel drive Transmission, type: automatic + lock-up 1st ratio: 2.81 2nd ratio: 1.48 3rd ratio: 1.00 Gear ratios: 4th ratio: 0.74 reverse ratio: 2.77 final drive ratio: 4.12 Clutch, type: torque converter Body Seats: 5 Drag coefficient (c_a): 0.31^{+} Frontal area (A in m2): 2.08 0.65+ Index (c _xA): **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

front

Anti roll bar

twin tube gas pressure shock absorbers

Brakes

Brake circuits:

Brakes front, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Brakes rear, diameter (mm):

Solid disc, 280

Standard equipment

TC Plus:

Standard equipment

ESP Plus:

Standard equipment

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1350/1875/525
Power to weight ratio (kg/kW; kg/hp)(empty): 14.7; 10.8
Max. axle load front/rear (kg): 950/940
Trailer load braked/unbraked (kg): 1250/660
Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 188
Acceleration 0-100 km/h (sec)*: 12.2
Pass-by noise (dBA): 70

Fuel: unleaded premium 95 RON

Fuel consumption (liter/100 km): Unleaded premium 95 RON

Measured according to EU gr

Measured according to EU guideline 99/100/EU. Additional equipment can lead to increased

consumption and CO_2 values. urban: 11.4 - 11.6 extra-urban: 6.3 - 6.5 total: 8.2 - 8.4

CO₂ emission (g/km): 197 - 202 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

Astra Caravan Enjoy 1.9 CDTI 74kW/100hp 6-speed station wagon 5 doors

2006

Model year:

Date: 08/2005 Engine data Engine: 1.9 CDTI ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 82 Bore (mm): 90.4 Stroke (mm): 1910 Displacement (cc): 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: bucket tappets Valve, arrangement: parallel: 2 per cylinder Valve adjustment: automatic - hydraulic Fuel system: diesel direct injection, common rail Fuel pump: mecanical oxidizing catalytic converter, diesel Emission control system: particulate filter turbo with intercooler Charger system: Output (kW/hp CEE at 1/min): 74/100 at 3500-400 Specific power (kW/l: hp/l): 38.7: 52.4 Max. torque (Nm at 1/min): 260 at 1700-2500 Specific torque (Nm/liter): 136.1 Mean effective pressure at max. power/max. torque (kPa): 1328.3/1711.4 Average piston speed (m/s): 10.5 Engine oil, capacity (I): 4.3 Cooling capacity (I): 7.5 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1420 Transmission Drive axle: front wheel drive Transmission, type: 6-speed manual 1st ratio: 3.82 2nd ratio: 2.05 3rd ratio: 1.30 Gear ratios: 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 reverse ratio: 3.55 final drive ratio: 3.65 Clutch, type: dry single plate Body Seats: Drag coefficient (c_): 0.31+ Frontal area (A in m2): 2.08 Index (c ..xA): 0.65^{+} **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 twin tube gas pressure shock absorbers Anti roll bar: front

Brakes

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx16/205/55 R16-91H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1435/1960/525 Power to weight ratio (kg/kW; kg/hp)(empty): 19.4; 14.4 Max. axle load front/rear (kg): 1045/940 Trailer load braked/unbraked (kg): 1400/670 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

 Top speed (km/h)*:
 180

 Acceleration 0-100 km/h (sec)*:
 12.5

 Acc. 80-120 km/h in 5th gear (sec)*:
 132

 Pass-by noise (dBA):
 72

 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: 7.8 extra-urban: 5.1 total: 6.1

CO₂ emission (g/km): 165 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

Astra Caravan Enjoy 1.9 CDTI 88kW/120hp 6-speed station wagon 5 doors

2006

08/2005

Model year:

Date:

Engine data Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: Bore (mm): 82 90.4 Stroke (mm): 1910 Displacement (cc): 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: mecanical Fuel system: diesel direct injection, common rail Fuel pump: high pressure, mechanical 2-way cat, conv. (oxidizing catalytic Emission control system: converter), exhaust gas recirculation, diesel particulate filter turbo with intercooler Charger system: Output (kW/hp CEE at 1/min): 88/120 at 3500-4000 Specific power (kW/l: hp/l): 46.1: 62.8 Max. torque (Nm at 1/min): 280 at 2000-2750 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 (I): 4.3 Cooling capacity (I): 7 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1420 Transmission Drive axle: front wheel drive Transmission, type: 6-speed manual 1st ratio: 3.82 2nd ratio: 2.05 3rd ratio: 1.30 Gear ratios: 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 reverse ratio: 3.55 final drive ratio: 3.65 Clutch, type: dry single plate Body Seats: Drag coefficient (c_): 0.31+ Frontal area (A in m2): 2.08 Index (c ..xA): 0.65^{+} **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 twin tube gas pressure shock absorbers Anti roll bar: front

Brakes

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx16/205/55 R16-91H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hvdr, power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1435/1960/525 Power to weight ratio (kg/kW; kg/hp)(empty): 16.3; 12.0 Max. axle load front/rear (kg): 1045/940 Trailer load braked/unbraked (kg): 1400/715 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

 Top speed (km/h)*:
 190

 Acceleration 0-100 km/h (sec)*:
 10.8

 Acc. 80-120 km/h in 5th gear (sec)*:
 11

 Pass-by noise (dBA):
 72

 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: 7.8 extra-urban: 5.1 total: 6.1 165

CO₂ emission (g/km): 165 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

Astra Caravan 1.9 CDTI 88kW/120hp 6-speed autom. station wagon 5 doors Model year: 2006 Date: 08/2005 Engine data Engine: 1.9 CDTI ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 82 Bore (mm): 90.4 Stroke (mm): 1910 Displacement (cc): 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: mecanical Fuel system: diesel direct injection, common rail high pressure, mechanical Fuel pump: oxidizing catalytic converter, diesel Emission control system: particulate filter turbo with intercooler Charger system: Output (kW/hp CEE at 1/min): 88/120 at 3500-4000 Specific power (kW/l: hp/l): 46.1: 62.8 Max. torque (Nm at 1/min): 280 at 2000-2750 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 (I): 4.3 Cooling capacity (I): 7 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V, capacity (W): 1704 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: 3.08 Body Seats: 5 Drag coefficient (c_a): 0.31^{+} Frontal area (A in m2): 2.08 0.65+ Index (c _xA): **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

front

Anti roll bar

twin tube gas pressure shock absorbers

Brakes

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx16/205/55 R16-91H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1465/1990/525
Power to weight ratio (kg/kW; kg/hp)(empty): 16.6; 12.2
Max. axle load front/rear (kg): 1045/940
Trailer load braked/unbraked (kg): 1400/715
Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 190
Acceleration 0-100 km/h (sec)*: 10.8
Acc. 80-120 km/h in 5th gear (sec)*: 11
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: 9.8 extra-urban: 5.5 total: 7.1

CO₂ emission (g/km): 192 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

Astra Caravan Enjoy 1.9 CDTI 110kW/150hp 6-speed station wagon 5 doors

2006

Model year:

Date: 08/2005 Engine data Engine: 1.9 CDTI ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 82 Bore (mm): 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 high pressure, mechanical Fuel pump: 2-way cat, conv. (oxidizing catalytic Emission control system: converter), exhaust gas recirculation, diesel particulate filter 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 2000-2750 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 (I): 4.3 Cooling capacity (I): 7 Battery 12 V, capacity (Ah): 60 Alternator 14.2 V. capacity (W): 1420 Transmission Drive axle: front wheel drive Transmission, type: 6-speed manual Gear ratios: 1st ratio: 3.82 2nd ratio: 2.05 3rd ratio: 1.30 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 reverse ratio: 3.55 final drive ratio: 3.65 Clutch, type: dry single plate Body Drag coefficient (c_a): 0.31+ Frontal area (A in m2): 2.08 Index (c _xA): 0.65^{+} **IDS** chassis Wheel suspension front: independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers compound link suspension, Wheel suspension rear: torsion tube design with 2 control arms miniblock coil springs twin tube gas pressure shock absorbers Anti roll bar: front

Brakes

Brake circuits:
2, diagonal
Brakes front, diameter (mm):
Brakes rear, diameter (mm):
Compound drum, 200
ABS:
Standard equipment
ESP:
Standard equipment

Weights and dimensions

 Length (mm):
 4515

 Width (mm):
 1794

 Height (mm):
 1500

 Wheelbase (mm):
 2703

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm): 59

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 6.5Jx16/205/55 R16-91H

Turning clearance circle/turning circle (m): 11.10/10.85

Steer. wheel turns lock/lock: 2.7

Steering, ratio: electr.-hydr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max. allowable weight/additional load (kg): 1450/1975/525 Power to weight ratio (kg/kW; kg/hp)(empty): 13.2; 9.7 Max. axle load front/rear (kg): 1045/940 Trailer load braked/unbraked (kg): 1400/720 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

 Top speed (km/h)*:
 207

 Acceleration 0-100 km/h (sec)*:
 9.2

 Acc. 80-120 km/h in 5th gear (sec)*:
 9.7

 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: 7.5 extra-urban: 5 total: 5.9

CO₂ emission (g/km): 159 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

Astra Caravan Enjoy 2.0 Turbo 125kW/170hp 6-speed station wagon 5 doors

Model year: 2006 Date: 08/2005 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: 86 Bore (mm): 86 Stroke (mm): 1998 Displacement (cc): 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: hvdraulic Fuel system: sequential multi point fuel injection electr. ignition map (EST) + knock sensor 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): 125/170 at 5200 Specific power (kW/l: hp/l): 62.6: 85.1 Max. torque (Nm at 1/min): 250 at 1950 Specific torque (Nm/liter): 125.1 Mean effective pressure at max. power/max. torque (kPa): 1443.8/1573.1 Average piston speed (m/s): 14.9 Engine oil, capacity (I): 4.25 Cooling capacity (I): 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 1st ratio: 3.82 2nd ratio: 2.05 3rd ratio: 1.30 Gear ratios: 4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61 reverse ratio: 3.55 final drive ratio: 3.94 Clutch, type: dry single plate Body Seats: 5 Drag coefficient (c_a): 0.31^{+} Frontal area (A in m2): 2.08 0.65+ Index (c _xA): **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

front

Anti roll bar

twin tube gas pressure shock absorbers

Brakes

Brake circuits: 2. diagonal ventilated disc. 260 Brakes front, diameter (mm): compound drum, 200 Brakes rear, diameter (mm): standard equipment ABS: ESP: standard equipment

Weights and dimensions

Length (mm): 4515 Width (mm): 1794 Height (mm): 1500 Wheelbase (mm): 2703 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 500(max. 540)-max. 1590 (with tire repair kit)

Opening luggage compartment to ground (mm):

Cargo-area length (mm): 1085(max. 1122)-max. 1819

Cargo-area width (mm): 1088 Cargo-area height (mm): 862

Rim width (inch)(mm)/tire size: 7Jx17/225/45 R17 Turning clearance circle/turning circle (m): 11.10/10.85

Steer, wheel turns lock/lock: 2.7

Steering, ratio: electr.-hvdr. power steering, 15

Steering wheel outside diameter (mm): 370

Kerb weight/max, allowable weight/additional load (kg): 1425/1950/525 Power to weight ratio (kg/kW: kg/hp)(empty): 11.4: 8.4

Max. axle load front/rear (kg): 1025/940 Trailer load braked/unbraked (kg): 1400/710 Trailer hook weight/roof load (kg): 75/100

Fuel tank capacity (I), location: 52, under luggage compartment

Performance

Top speed (km/h)*: 217 Acceleration 0-100 km/h (sec)*: 8.9 Acc. 80-120 km/h in 5th gear (sec)*: 11.1 Pass-by noise (dBA):

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: 12.9 extra-urban: 6.9 total: 9.1

CO2 emission (g/km): 218 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

Astra Caravan Cosmo 2.0 Turbo 147kW/200hp 6-speed station wagon 5 doors

Anti roll bar

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Additional equipment can lead to increased

consumption and CO2 values.

urban: 13.2 extra-urban: 7.2 total: 9.4

226 Euro 4

General inspection after 24 months or 60.000 km;

interim service with oil exchange after 12 months or

30.000 km