Astra GTC 1.3 CDTI 66kW/90hp 6-speed hatchback 3 doors

Model year:	2006	Brakes
Date:	08/2005	Brake circuits:
Engine data		Brakes front, diameter (mm):
Engine data		Brakes rear, diameter (mm):
Engine:	1.3 CDTI ECOTEC	ABS:
Engine, location:	front, transverse in front of axle, 12° inclined	TC Plus:
Cooling system:	with liquid, sealed circuit	ESP Plus:
Cylinders, number:	4	20. 1.00.
Bore (mm):	69.6	Maighte and dimensions
Stroke (mm):	82	Weights and dimensions
Displacement (cc):	1248	Length (mm):
Compression ratio:	18:1	Width (mm):
Engine, type:	in line; 5 main bearings	Height (mm):
Cylinder block/head, material:	cast iron/alumnium alloy	Wheelbase (mm):
Camshaft(s), location:	2 overhead (DOHC), driven by chain	Track front/rear (mm):
Valve train:	indirect roller cam followers, hydraulic tappets	Luggage capacity (I) ECIE:
		Laggage capacity (i) Lo.L.
Valve, arrangement:	parallel; 4 per cylinder	Opening luggage compartment to grou
Valve adjustment:	automatic - hydraulic	Cargo-area length (mm):
Fuel system:	diesel direct injection, common rail	Cargo-area width (mm):
Fuel pump:	mecanical	Cargo-area widir (mm):
Emission control system:	2-way cat. conv., exhaust gas recirculation	
Charger system:	turbo with intercooler	Rim width (inch)(mm)/tire size:
Output (kW/hp CEE at 1/min):	66/90 at 4000	Turning clearance circle/turning circle
Specific power (kW/l; hp/l):	52.9; 72.1	Steer. wheel turns lock/lock:
Max. torque (Nm at 1/min):	200 at 1750-2500	Steering, ratio:
Specific torque (Nm/liter):	160.3	Steering wheel outside diameter (mm)
Mean effective pressure at		Kerb weight/max. allowable weight/add
max. power/max. torque (kPa):	1586.5/2014.7	Power to weight ratio (kg/kW; kg/hp)(e
Average piston speed (m/s):	10.9	Max. axle load front/rear (kg):
Engine oil, capacity (I):	3.2	Trailer load braked/unbraked (kg):
Cooling capacity (I):	7.6	Trailer hook weight/roof load (kg):
Battery 12 V, capacity (Ah):	60	Fuel tank capacity (I), location:
Alternator 14.2 V, capacity (W):	994	
rateriates rise rijection (rr).		Performance
Transmission		
		Top speed (km/h)*:
Drive axle:	front wheel drive	Acceleration 0-100 km/h (sec)*:
Transmission, type:	6-speed manual	Acc. 80-120 km/h in 5th gear (sec)*:
Gear ratios:	1st ratio: 4.27 2nd ratio: 2.16 3rd ratio: 1.3	Pass-by noise (dBA):
	4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61	Fuel:
	reverse ratio: 3.82 final drive ratio: 3.72	Fuel consumption (liter/100 km):
Clutch, type:	dry single plate	
Body		
Seats:	F	
	5 0.34⁺	
Drag coefficient (c _D):		CO ₂ emission (g/km):
Frontal area (A in m²):	2.03	Emission class:
Index (c _w xA):	0.68 ⁺	
		Maintenance
IDS chassis		Service intervals:
Wheel suspension front:	independent, wishbone on closed subframe,	Gervice intervals.
whice suspension none.	McPherson struts, twin tube gas pressure shock absorbers	
Whool suspension room		
Wheel suspension rear:	compound link suspension,	
	torsion tube design with 2 control arms	
	miniblock coil springs	* Basic model
A.C. H.L.	twin tube gas pressure shock absorbers	* Kerb weight (70156 EEC) and 125 kg
Anti roll bar:	front	Specifications may differ outside Gern

2, diagonal ventilated disc, 280 solid disc, 264 standard equipment standard equipment standard equipment

4290 1753 1435 2614 1488/1488

340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire) 695

ground (mm): 819-1522 944 772

6.5Jx15/195/65 R15 H

10.80/10.55 rcle (m):

2.7

electr.-hydr. power steering, 15

hp)(empty): 20.2; 14.8 865/840

1300/650 75/75

52, under rear seats

174 13.6 15.2 72 Diesel

Measured according to EU guideline 99/100/EU.

Additional equipment can lead to increased

consumption and CO₂ values. urban: 6.2

extra-urban: 4.0 total: 4.8

130

Euro 4

General inspection after 24 months or 60.000 km;

interim service with oil exchange after 12 months or

30.000 km

25 kg payload Specifications may differ outside Germany

Astra GTC 1.3 CDTI 66kW/90hp Easytronic hatchback 3 doors

Astra GTC 1.3 CDTI	66kW/90hp Easytronic hatchback 3 doors
Model year: Date:	2006 08/2005
Engine data	
Engine:	1.3 CDTI ECOTEC
Engine, location:	front, transverse in front of axle, 12° inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	69.6
Stroke (mm):	82
Displacement (cc):	1248
Compression ratio:	18:1
Engine, type:	in line; 5 main bearings
Cylinder block/head, material:	cast iron/alumnium alloy
Camshaft(s), location:	2 overhead (DOHC), driven by chain
Valve train:	indirect roller cam followers, hydraulic tappets
Valve, arrangement:	parallel; 4 per cylinder
Valve adjustment:	automatic - hydraulic
Fuel system:	diesel direct injection, common rail
Fuel pump:	mecanical
Emission control system:	2-way cat. conv., exhaust gas recirculation
Charger system:	turbo with intercooler
Output (kW/hp CEE at 1/min): Specific power (kW/l; hp/l):	66/90 at 4000 52.9: 72.1
Max. torque (Nm at 1/min):	200 at 1750-2500
Specific torque (Nm/liter):	160.3
Mean effective pressure at	100.5
max. power/max. torque (kPa):	1586.5/2014.7
Average piston speed (m/s):	10.9
Engine oil, capacity (I):	3.2
Cooling capacity (I):	7.6
Battery 12 V, capacity (Ah):	60
Alternator 14.2 V, capacity (W):	994
Transmission	
Drive axle:	front wheel drive
Transmission, type:	Easytronic, automated manual transmission
Gear ratios:	1st ratio: 4.27 2nd ratio: 2.16 3rd ratio: 1.3
	4th ratio: 0.96 5th ratio: 0.74 6th ratio: 0.61
	reverse ratio: 3.82 final drive ratio: 3.72
Clutch, type:	dry single plate
Body	
Seats:	5
Drag coefficient (c _n):	0.34 ⁺
Frontal area (A in m²):	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
	twin tube gas pressure shock absorbers
	tabe gas pressure street, about se

front

Anti roll bar:

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):
 4290

 Width (mm):
 1753

 Height (mm):
 1435

 Wheelbase (mm):
 2614

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) 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: 6.5Jx15/195/65 R15 H

Turning clearance circle/turning circle (m): 10.80/10.55

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): 1330/1805/475
Power to weight ratio (kg/kW; kg/hp)(empty): 20.2; 14.8
Max. axle load front/rear (kg): 865/840

Max. axle load front/rear (kg): 865/840
Trailer load braked/unbraked (kg): 1300/650
Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 174
Acceleration 0-100 km/h (sec)*: 13.6
Acc. 80-120 km/h in 5th gear (sec)*: 15.2
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: 6.2 extra-urban: 4.0 total: 4.8

CO₂ emission (g/km): 130 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 GTC 1.4 66kW/90hp 5-speed hatchback 3 doors

Anti roll bar

Model year: 2006 Date: 08/2005 Engine data Engine: 1.4 TWINPORT ECOTEC Engine, location: front, transverse in front of axle, 7° 50' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 73.4 Bore (mm): 80.6 Stroke (mm): 1364 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) Valve train: indirect roller cam followers, hydraulic tappets Valve, arrangement: v: 4 per cylinder Valve adjustment: hydraulic 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): 66/90 at 5600 Specific power (kW/I: hp/I): 48.4: 66.0 Max. torque (Nm at 1/min): 125 at 4000 Specific torque (Nm/liter): 91.6 Mean effective pressure at max. power/max. torque (kPa): 1036.9/1152.1 Average piston speed (m/s): 15.0 Engine oil, capacity (I): 3.5 Cooling capacity (I): 5.6 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: 4.18 Clutch, type: dry single plate Body Seats: 5 0.34+ Drag coefficient (c_a): Frontal area (A in m2): 2.03 0.68+ 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

front

Brakes

Brake circuits: 2. diagonal ventilated disc. 280 Brakes front, diameter (mm): Brakes rear, diameter (mm): solid disc. 240 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695

819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1230/1705/475 Power to weight ratio (kg/kW: kg/hp)(empty): 18.6: 13.7 Max. axle load front/rear (kg): 870/840 Trailer load braked/unbraked (kg): 1000/605 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 180 Acceleration 0-100 km/h (sec)*: 13.6 Acc. 80-120 km/h in 5th gear (sec)*: 18.3 Pass-by noise (dBA):

unleaded premium 95 RON Fuel:

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

Additional equipment can lead to increased

consumption and CO2 values.

urban: 8.2 - 8.4extra-urban: 5.2 - 5.4 total: 6.3 - 6.5

CO2 emission (g/km): 151 - 156 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

Actra GTC 14 66kW/00hn Facutronic hatchback 3 doors

Model year:	2006	Brakes	
Date:	08/2005		0 "
		Brake circuits:	2, diagonal
Engine data		Brakes front, diameter (mm):	ventilated disc, 28
Engine:	1.4 TWINPORT ECOTEC	Brakes rear, diameter (mm):	solid disc, 240
	front, transverse in front of axle, 7° 50' forward inclined	ABS:	standard equipme
Engine, location:		TC Plus:	standard equipme
Cooling system:	with liquid, sealed circuit	ESP Plus:	standard equipme
Cylinders, number:	4		
Bore (mm):	73.4	Weights and dimensions	
Stroke (mm):	80.6	Length (mm):	4290
Displacement (cc):	1364	Width (mm):	1753
Compression ratio:	10.5:1	Height (mm):	1435
Engine, type:	in line; 5 main bearings	Wheelbase (mm):	2614
Cylinder block/head, material:	cast iron/aluminum	Track front/rear (mm):	1488/1488
Camshaft(s), location:	2 overhead (DOHC),		
Valve train:	indirect roller cam followers, hydraulic tappets	Luggage capacity (I) ECIE:	340-1070 (with tir
Valve, arrangement:	v; 4 per cylinder	Opening luggers compertment to ground (mm):	302-1032 (with sp
Valve adjustment:	hydraulic	Opening luggage compartment to ground (mm):	695
Fuel system:	sequential multi point fuel injection	Cargo-area length (mm):	819-1522
Ignition system:	electr. ignition map (EST) + knock sensor	Cargo-area width (mm):	944
Fuel pump:	electric, in tank	Cargo-area height (mm):	772
Emission control system:	3-way cat. conv. with 2 oxygen sensors	Rim width (inch)(mm)/tire size:	6.5Jx15/195/65 R
Output (kW/hp CEE at 1/min):	66/90 at 5600	Turning clearance circle/turning circle (m):	10.80/10.55
Specific power (kW/I; hp/I):	48.4; 66.0	Steer. wheel turns lock/lock:	2.7
Max. torque (Nm at 1/min):	125 at 4000	Steering, ratio:	electrhydr. powe
Specific torque (Nm/liter):	91.6	Steering wheel outside diameter (mm):	370
Mean effective pressure at		Kerb weight/max. allowable weight/additional load (kg	
max. power/max. torque (kPa):	1036.9/1152.1	Power to weight ratio (kg/kW; kg/hp)(empty):	18.6; 13.7
Average piston speed (m/s):	15.0	Max. axle load front/rear (kg):	870/840
Engine oil, capacity (I):	3.5	Trailer load braked/unbraked (kg):	1000/605
Cooling capacity (I):	5.6	Trailer hook weight/roof load (kg):	75/75
Battery 12 V, capacity (Ah):	44	Fuel tank capacity (I), location:	52, under rear sea
Alternator 14.2 V, capacity (W):	994		
· ····································		Performance	
Transmission		Top speed (km/h)*:	178
		Acceleration 0-100 km/h (sec)*:	15.1
Drive axle:	front wheel drive		72
Transmission, type:	Easytronic, automated manual transmission	Pass-by noise (dBA): Fuel:	
Gear ratios:	1st ratio: 3.73 2nd ratio: 1.96 3rd ratio: 1.30		unleaded premiur
	4th ratio: 0.95 5th ratio: 0.76	Fuel consumption (liter/100 km):	Measured accord
	reverse ratio: 3.31 final drive ratio: 4.18		Additional equipm
Clutch, type:	single-plate clutch, electrically operated		consumption and
			urban: 7.7
Body			extra-urban: 4.9
	<u>-</u>		total: 5.9
Seats:	5	CO ₂ emission (g/km):	142 - 146
Drag coefficient (c₀):	0.34*	Emission class:	Euro 4
Frontal area (A in m²):	2.03		
Index (c "xA):	0.68⁺	Maintenance	
			Congral inapportion
IDS chassis		Service intervals:	General inspectio interim service with
Wheel suspension front:	independent, wishbone on closed subframe,		
whool suspension none.	McPherson struts, twin tube gas pressure shock absorbers		30.000 km
Wheel suspension rear:	compound link suspension,		
vincer suspension real.		+ Designandal	
	torsion tube design with 2 control arms	* Basic model	

miniblock coil springs

front

Anti roll bar:

twin tube gas pressure shock absorbers

2, diagonal ventilated disc, 280 solid disc, 240 standard equipment standard equipment standard equipment

6.5Jx15/195/65 R15 H 10.80/10.55 2.7

52, under rear seats

unleaded premium 95 RON

consumption and CO2 values.

extra-urban: 4.9 - 5.1

7.7 - 7.9

5.9 - 6.1

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

General inspection after 24 months or 60.000 km; interim service with oil exchange after 12 months or

electr.-hydr. power steering, 15

340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire)

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

Actra GTC 16 77kW/105hn 5-speed hatchback 3 doors

AStra GIC 1.6 77kW/105hp 5-spe	ed hatchback 3 doors
Model year: Date:	2006 08/2005
Engine data	
Engine: Engine, location: Cooling system: Cylinders, number: Bore (mm): Stroke (mm):	1.6 TWINPORT ECOTEC front, transverse in front of axle, 7° 50' forward inclined with liquid, sealed circuit 4 79 81.5
Displacement (cc): Compression ratio:	1598 10.5:1
Engine, type: Cylinder block/head, material: Camshaft(s), location: Valve train:	in line; 5 main bearings cast iron/aluminum 2 overhead (DOHC), driven by toothed belt direct, bucket tappets
Valve, arrangement: Valve adjustment:	v; 4 per cylinder mecanical
Fuel system: Ignition system: Fuel pump:	sequential multi point fuel injection electr. ignition map (EST) + knock sensor electric, in tank
Emission control system: Output (kW/hp CEE at 1/min): Specific power (kW/l; hp/l):	3-way cat. conv. with 2 oxygen sensors 77/105 at 6000 48.2; 65.7
Max. torque (Nm at 1/min): Specific torque (Nm/liter): Mean effective pressure at	150 at 3900 93.9
max. power/max. torque (kPa): Average piston speed (m/s): Engine oil, capacity (l): Cooling capacity (l): Battery 12 V, capacity (Ah):	963.7/1180.1 16.3 4 5.9 55
Alternator 14.2 V, capacity (W):	1420
Transmission	
Drive axle: Transmission, type: Gear ratios:	front wheel drive 5-speed manual 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_p): Frontal area (A in m ²): Index (c_w xA):	0.34* 2.03 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 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. 240 ABS: standard equipment TC Plus: standard equipment ESP Plus: standard equipment

Weights and dimensions

Length (mm): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) 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: 6.5Jx15/195/65 R15 H

10.80/10.55 Turning clearance circle/turning circle (m):

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1265/1740/475 Power to weight ratio (kg/kW; kg/hp)(empty): 16.4: 12.0 Max. axle load front/rear (kg): 910/840

Trailer load braked/unbraked (kg): 1200/620 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 187 Acceleration 0-100 km/h (sec)*: 12.2 Acc. 80-120 km/h in 5th gear (sec)*: 15.9 Pass-by noise (dBA): 71

Fuel: unleaded premium 95 RON

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

Additional equipment can lead to increased

consumption and CO2 values.

urban: 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

Astra GTC 1.6 77kW/105hp Easytronic hatchback 3 doors

front

Anti roll bar:

Model year:	2006	Brakes	
Date:	08/2005	Brake circuits:	2, diagonal
English data		Brakes front, diameter (mm):	ventilated disc, 280
Engine data		Brakes rear, diameter (mm):	solid disc, 240
Engine:	1.6 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	LOF Flus.	standard equipment
Bore (mm):	79	NAC 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	81.5	Weights and dimensions	
Stroke (mm):		Length (mm):	4290
Displacement (cc):	1598	Width (mm):	1753
Compression ratio:	10.5:1	Height (mm):	1435
Engine, type:	in line; 5 main bearings		2614
Cylinder block/head, material:	cast iron/aluminum	Wheelbase (mm):	
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:	340-1070 (with tire repair kit)
Valve, arrangement:	v; 4 per cylinder		302-1032 (with space-saver spare wheel/tire)
Valve adjustment:	mecanical	Opening luggage compartment to ground (mm):	695
Fuel system:	sequential multi point fuel injection	Cargo-area length (mm):	819-1522
Ignition system:	electr. ignition map (EST) + knock sensor	Cargo-area width (mm):	944
Fuel pump:	electric, in tank	Cargo-area height (mm):	772
		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):	10.80/10.55
Output (kW/hp CEE at 1/min):	77/105 at 6000	Steer. wheel turns lock/lock:	2.7
Specific power (kW/l; hp/l):	48.2; 65.7		
Max. torque (Nm at 1/min):	150 at 3900	Steering, ratio:	electrhydr. power steering, 15
Specific torque (Nm/liter):	93.9	Steering wheel outside diameter (mm):	370
Mean effective pressure at		Kerb weight/max. allowable weight/additional load (kg	
max. power/max. torque (kPa):	963.7/1180.1	Power to weight ratio (kg/kW; kg/hp)(empty):	16.4; 12.0
Average piston speed (m/s):	16.3	Max. axle load front/rear (kg):	910/840
Engine oil, capacity (I):	4	Trailer load braked/unbraked (kg):	1200/620
Cooling capacity (I):	5.9	Trailer hook weight/roof load (kg):	75/75
	55	Fuel tank capacity (I), location:	52, under rear seats
Battery 12 V, capacity (Ah):		Tuor tariit sapasity (i), issation.	oz, andor roar odato
Alternator 14.2 V, capacity (W):	1420	Danfannasa	
		Performance	
Transmission		Top speed (km/h)*:	187
Drive axle:	front wheel drive	Acceleration 0-100 km/h (sec)*:	13.2
		Pass-by noise (dBA):	71
Transmission, type:	Easytronic, automated manual transmission	Fuel:	unleaded premium 95 RON
Gear ratios:	1st ratio: 3.73 2nd ratio: 1.96 3rd ratio: 1.32	Fuel consumption (liter/100 km):	Measured according to EU guideline 99/100/EU.
	4th ratio: 0.95 5th ratio: 0.76	i dei consumption (iitei/100 km).	
	reverse ratio: 3.31 final drive ratio: 3.94		Additional equipment can lead to increased
Clutch, type:	single-plate clutch, electrically operated		consumption and CO ₂ values.
			urban: 8.5 - 8.7
Pody			extra-urban: 5.3 - 5.5
Body			total: 6.5 - 6.7
Seats:	5	CO ₂ emission (g/km):	156 - 161
Drag coefficient (c _n):	0.34+	Emission class:	Euro 4
Frontal area (A in m²):	2.03		
Index (c "xA):	0.68^{+}	Maintananaa	
		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		00.000 Idii
Wheel suspension rear:	compound link suspension,		
vincer suspension rear.	torsion tube design with 2 control arms	+ Danie and dal	
		* Basic model	
	miniblock coil springs	* Kerb weight (70156 EEC) and 125 kg payload	
	twin tube gas pressure shock absorbers	Specifications may differ outside Germany	
Anti roll har:	front		

Specifications may differ outside Germany

Astra GTC 1.7 CDTI 74kW/100hp 5-speed hatchback 3 doors

Model year: Date:	2006 08/2005
Engine data	
Engine:	1.7 CDTI ECOTEC
Engine, location:	front, transverse in f
Cooling eyetom:	with liquid coaled cit

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

1.18

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): 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

dry single plate

Body

Clutch, type:

Seats: Drag coefficient (c_): 0.34+ Frontal area (A in m2): 2.03 Index (c ...xA): 0.68^{+}

IDS chassis

Wheel suspension front: independent, wishbone on closed subframe,

McPherson struts, twin tube gas pressure shock absorbers

transverse in front of axle. 7° 50' forward inclined

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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695 819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1365/1840/475

Power to weight ratio (kg/kW: kg/hp)(empty): 18.4: 13.7 Max. axle load front/rear (kg): 965/840 Trailer load braked/unbraked (kg): 1400/670 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 182 Acceleration 0-100 km/h (sec)*: 12.2 Acc. 80-120 km/h in 5th gear (sec)*: 12.2 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 5.0 - 5.1 total:

CO2 emission (g/km): 135 - 138 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 GTC 1.7 CDTI 74kW/100hp 6-speed hatchback 3 doors

Model year:

Wheel suspension rear:

Anti roll bar:

Date:

Engine data	
Engine:	1.7 CDTI ECOTEC
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	79
Stroke (mm):	86
Displacement (cc):	1686
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):	1.18
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
Geal Tallos.	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
Cidion, type.	dry single plate
Body	
Seats:	5
Drag coefficient (c ₂):	0.34+
Frontal area (A in m²):	2.03
Index (c "xA):	0.68+
	5.55
IDS chassis	
Wheel suspension front:	independent, wishbone on closed subframe,
· · · · · · · · · · · · · · · · · · ·	Maple and a trib the and a second all the and a

McPherson struts, twin tube gas pressure shock absorbers

compound link suspension,

miniblock coil springs

front

torsion tube design with 2 control arms

twin tube gas pressure shock absorbers

2006

08/2005

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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire) Opening luggage compartment to ground (mm): 695

819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1365/1840/475

Power to weight ratio (kg/kW; kg/hp)(empty): 18.4; 13.7 Max. axle load front/rear (kg): 1000/840 Trailer load braked/unbraked (kg): 1400/670 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 180 Acceleration 0-100 km/h (sec)*: 12.2 Acc. 80-120 km/h in 5th gear (sec)*: 12.2 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: 5.0 - 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

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

* Basic model

Actra GTC 18 02kW/125hn 5-speed hatchback 3 doors

Anti roll bar:

Model year:	2006	Brak
Date:	08/2005	Brake
		Brakes
Engine data		Brakes
Engine:	1.8 ECOTEC	ABS:
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined	TC Plu
Cooling system:	with liquid, sealed circuit	ESP P
Cylinders, number:	4	
Bore (mm):	80.5	Weig
Stroke (mm):	88.2	Length
Displacement (cc):	1796	Width
Compression ratio:	10.5:1	Height
Engine, type:	in line; 5 main bearings cast iron/aluminum	Wheell
Cylinder block/head, material: Camshaft(s), location:	2 overhead (DOHC), driven by toothed belt	Track f
Valve train:	hydraulic bucket tappets	Luggag
Valve, arrangement:	v; 4 per cylinder	33**
Valve adjustment:	hydraulic	Openir
Fuel system:	sequential multi point fuel injection	Cargo-
Ignition system:	electr. ignition map, ignition coil direct to spark plug	Cargo-
Fuel pump:	electric, in tank	Cargo-
Emission control system:	3-way cat. conv. with 2 oxygen sensors	Rim wi
Output (kW/hp CEE at 1/min):	92/125 at 5600	Turning
Specific power (kW/I; hp/I):	51.2; 69.6	Steer.
Max. torque (Nm at 1/min):	170 at 3800	Steerin
Specific torque (Nm/liter):	94.7	Steerin Kerb w
Mean effective pressure at		Power
max. power/max. torque (kPa):	1097.7/1190.0	Max. a
Average piston speed (m/s):	16.5	Trailer
Engine oil, capacity (I):	4.25 5.9	Trailer
Cooling capacity (I): Battery 12 V, capacity (Ah):	5.9 44	Fuel ta
Alternator 14.2 V, capacity (W):	994	
Alternator 14.2 v, capacity (vv).	334	Perfo
Transmission		
		Top sp Accele
Drive axle:	front wheel drive	Accele
Transmission, type:	5-speed manual	Pass-b
Gear ratios:	1st ratio: 3.73 2nd ratio: 2.14 3rd ratio: 1.41	Fuel:
	4th ratio: 1.12 5th ratio: 0.89 reverse ratio: 3.31 final drive ratio: 3.94	Fuel co
Clutch, type:	dry single plate	. 40. 00
Ciutori, type.	ury sirigie plate	
Body		
Seats:	5	
Drag coefficient (c _s):	0.34 ⁺	00 -
Frontal area (A in m²):	2.03	CO ₂ e Emissi
Index (c "xA):	0.68 ⁺	EIIIISSI
maex (e _w x y.	0.00	Main
IDS chassis		
	independent wichhone on closed subframe	Service
Wheel suspension front:	independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers	
Wheel suspension rear:	compound link suspension,	
Title of Suspension real.	torsion tube design with 2 control arms	
	miniblock coil springs	* Basic
	twin tube gas pressure shock absorbers	* Kerb
		1,010

front

kes

e circuits: 2, diagonal es front, diameter (mm): ventilated disc. 280 es rear, diameter (mm): solid disc. 264 standard equipment standard equipment Plus: standard equipment

ights and dimensions

ith (mm): 4290 h (mm): 1753 ht (mm): 1435 elbase (mm): 2614 front/rear (mm): 1488/1488

age capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire) ning luggage compartment to ground (mm):

819-1522 o-area length (mm): o-area width (mm): 944 o-area height (mm): 772

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

ing clearance circle/turning circle (m): 10.80/10.55

wheel turns lock/lock: 2.7

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

ring wheel outside diameter (mm): weight/max. allowable weight/additional load (kg): 1278/1760/482 er to weight ratio (kg/kW; kg/hp)(empty): 13.9: 10.2 axle load front/rear (kg): 920/840 er load braked/unbraked (kg): 1300/630 er hook weight/roof load (kg):

75/75 tank capacity (I), location: 52, under rear seats

formance

speed (km/h)*: 200 eleration 0-100 km/h (sec)*: 10.7 80-120 km/h in 5th gear (sec)*: 13.4 s-by noise (dBA): 72

unleaded premium 95 RON

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

Additional equipment can lead to increased

consumption and CO2 values. urban: 10.4 - 10.6

extra-urban: 6.1 - 6.3 total: 7.7 - 7.9

emission (g/km): 185 - 190 Euro 4 sion class:

intenance

ice intervals: General inspection after 24 months or 60.000 km;

interim service with oil exchange after 12 months or

30.000 km

sic model

Astra GTC 1.8 92kW/125hp	4-speed autom. hatchback 3 doors
Model year: Date:	2006 08/2005
Engine data	
<u> </u>	1.0 FCOTFC
Engine:	1.8 ECOTEC
Engine, location:	front, transverse in front of axle, 7° 50' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	80.5
Stroke (mm):	88.2
Displacement (cc):	1796
Compression ratio:	10.5:1
Engine, type:	in line; 5 main bearings
Cylinder block/head, material:	cast iron/aluminum
Camshaft(s), location:	2 overhead (DOHC), driven by toothed belt
Valve train:	hydraulic bucket tappets
Valve, arrangement:	v; 4 per cylinder
Valve adjustment:	hydraulic
Fuel system:	sequential multi point fuel injection
Ignition system:	electr. ignition map, ignition coil direct to spark plug
Fuel pump:	electric, in tank
Emission control system:	3-way cat. conv. with 2 oxygen sensors
Output (kW/hp CEE at 1/min):	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	0 1.7
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
Gear ratios:	1st ratio: 2.81 2nd ratio: 1.48 3rd ratio: 1.00
Ocai ialios.	4th ratio: 0.74
	reverse ratio: 2.77 final drive ratio: 4.12
Clutch, type:	torque converter
Body	
Seats:	5
	0.34^{+}
Drag coefficient (c _D):	
Frontal area (A in m²):	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

front

Anti roll bar:

twin tube gas pressure shock absorbers

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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 1488/1488 Track front/rear (mm):

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695 819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1310/1785/475 Power to weight ratio (kg/kW; kg/hp)(empty): 14.2: 10.5 Max. axle load front/rear (kg): 940/840

Trailer load braked/unbraked (kg): 1300/630 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 190 Acceleration 0-100 km/h (sec)*: 11.7 Pass-by noise (dBA): 70

Fuel: unleaded premium 95 RON

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

Additional equipment can lead to increased

consumption and CO2 values. urban: 11.3 - 11.5

extra-urban: 6.2 - 6.4

total: 8.1 - 8.3

194 - 199 Euro 4

Emission class: 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 GTC 1.9 CDTI 74kW/100hp 6-speed hatchback 3 doors

Model year: 2006 Date: 08/2005 Engine data Engine: 1.9 CDTI ECOTEC Engine, location: front, transverse in front of axle, 17° 24' 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 3500-4000

Specific power (kW/l: hp/l): 38.7: 52.4 Max. torque (Nm at 1/min): 260 at 1700-2500 136.1

Specific torque (Nm/liter): 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 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_): 0.34+ Frontal area (A in m2): 2.03 Index (c ..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

twin tube gas pressure shock absorbers

Anti roll bar: front

Brakes

Brake circuits: 2. diagonal ventilated disc. 308 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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire) Opening luggage compartment to ground (mm): 695

819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1395/1870/475

Power to weight ratio (kg/kW: kg/hp)(empty): 18.9: 14.0 Max. axle load front/rear (kg): 1060/840 Trailer load braked/unbraked (kg): 1400/630 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 182 Acceleration 0-100 km/h (sec)*: 12.2 Acc. 80-120 km/h in 5th gear (sec)*: 11.8 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: 7.7 extra-urban: 5.0 total: 6.0

CO2 emission (g/km): 162

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 GTC Edition 1.9 CDTI 88kW/120hp 6-speed hatchback 3 doors

Model year: 2006 Date: 08/2005 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: 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 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_): 0.34+ Frontal area (A in m2): 2.03 Index (c ..xA): 0.68^{+}

IDS chassis

Wheel suspension rear:

Wheel suspension front: independent, wishbone on closed subframe,

McPherson struts, twin tube gas pressure shock absorbers

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. 308 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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695 819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1395/1870/475 Power to weight ratio (kg/kW; kg/hp)(empty): 15.9: 11.6

Max. axle load front/rear (kg): 1060/840 Trailer load braked/unbraked (kg): 1500/680 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 193 Acceleration 0-100 km/h (sec)*: 10.5 Acc. 80-120 km/h in 5th gear (sec)*: 10.7 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: 7.7 extra-urban: 5.0 total: 6.0

CO2 emission (g/km): 162

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 GTC 1.9 CDTI 88kW/120hp 6-speed autom. hatchback 3 doors

Model year: 2006 Date: 08/2005 Engine data Engine: 1.9 CDTI ECOTEC Engine, location: front, transverse in front of axle, 17° 24' forward inclined Cooling system: with liquid, sealed circuit Cylinders, number: 82 Bore (mm): Stroke (mm): 90.4 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): 7.5 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 0.34+ Drag coefficient (c_a): Frontal area (A in m2): 2.03 0.68+ 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

front

Anti roll bar

Brakes

Brake circuits: 2. diagonal ventilated disc. 308 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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695

819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

Turning clearance circle/turning circle (m): 10.80/10.55

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1425/1900/475

Power to weight ratio (kg/kW: kg/hp)(empty): 16.2: 11.9 Max. axle load front/rear (kg): 1060/840 Trailer load braked/unbraked (kg): 1500/680 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

190 Top speed (km/h)*: Acceleration 0-100 km/h (sec)*: 11.4 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: 9.7 extra-urban: 5.4 total: 7.0

CO2 emission (g/km): 189 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

Astra GTC Edition 1.9 CDTI 110kW/150hp 6-speed hatchback 3 doors

	· · ·
Model year: Date:	2006 08/2005
Engine data	
Engine:	1.9 CDTI ECOTEC
Engine, location:	front, transverse in front of axle, 17° 24' forward inclined
Cooling system:	with liquid, sealed circuit
Cylinders, number:	4
Bore (mm):	82
Stroke (mm):	90.4
Displacement (cc):	1910
Compression ratio:	17.5:1
Engine, type:	in line; 5 main bearings
Cylinder block/head, material: Camshaft(s), location:	cast iron/aluminum 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, mechanical
Emission control system:	2-way cat. conv. (oxidizing catalytic
	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; 78.5 320 at 2000-2750
Max. torque (Nm at 1/min): Specific torque (Nm/liter):	167.5
Mean effective pressure at	107.3
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	
Seats:	5
Drag coefficient (c _a):	0.34*
Frontal area (A in m²):	2.03
Index (c _w xA):	0.68*
IDS chassis	
Wheel suspension front:	independent, wishbone on closed subframe,
The state of the s	McPherson struts, twin tube gas pressure shock absorbers
Wheel suspension rear:	compound link suspension,
•	torsion tube design with 2 control arms
	miniblock coil springs
	turin turba ana propoura abaak abaarbara

front

Anti roll bar:

twin tube gas pressure shock absorbers

Brakes

Brake circuits: 2, diagonal ventilated disc. 308 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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit)

302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): Cargo-area length (mm): 819-1522 Cargo-area width (mm): 944 Cargo-area height (mm): 772

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

10.80/10.55 Turning clearance circle/turning circle (m):

Steer. wheel turns lock/lock: 2.7

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

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1393/1885/492

Power to weight ratio (kg/kW; kg/hp)(empty): 12.7: 9.3 Max. axle load front/rear (kg): 1045/840 Trailer load braked/unbraked (kg): 1500/690 Trailer hook weight/roof load (kg): 75/75

Fuel tank capacity (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 210 Acceleration 0-100 km/h (sec)*: 8.9 Acc. 80-120 km/h in 5th gear (sec)*: 9.4 Pass-by noise (dBA): 73 Diesel Fuel:

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

Additional equipment can lead to increased

consumption and CO2 values.

urban: 7.4 extra-urban: 4.9 total: 5.8 157

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 GTC Edition 2.0 Turbo 125kW/170hp 6-speed hatchback 3 doors

Astra GTC Edition 2	2.0 Turbo 125kW/170hp 6-speed hatchback 3 doors
Model year: Date:	2006 08/2005
Engine data	
Engine: Engine, location: Cooling system: Cylinders, number:	2.0 Turbo ECOTEC front, transverse in front of axle, 7° 50' forward inclined with liquid, sealed circuit
Bore (mm):	86
Stroke (mm): Displacement (cc):	86 1998
Compression ratio:	8.8:1
Engine, type:	in line; 5 main bearings
Cylinder block/head, material: Camshaft(s), location:	cast iron/aluminum 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
Ignition system: Fuel pump:	electr. ignition map (EST) + knock sensor 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/I; hp/I):	62.6; 85.1
Max. torque (Nm at 1/min):	250 at 1950
Specific torque (Nm/liter): Mean effective pressure at	125.1
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): Alternator 14.2 V, capacity (W):	55 1704
Transmission	
Drive axle:	front wheel drive
Transmission, type: Gear ratios:	6-speed manual 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: 3.94
Clutch, type:	dry single plate
Body	
Seats:	5
Drag coefficient (c,):	0.34+
Frontal area (A in m²):	2.03
Index (c _w xA):	0.68*
IDS chassis	
Wheel suspension front:	independent, wishbone on closed subframe,
Wheel suspension rear:	McPherson struts, twin tube gas pressure shock absorbers compound link suspension,
	torsion tube design with 2 control arms miniblock coil springs
Antine II have	twin tube gas pressure shock absorbers
Anti roll bar:	front

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

TC Plus:

Standard equipment

ESP Plus:

Standard equipment

Weights and dimensions

 Length (mm):
 4290

 Width (mm):
 1753

 Height (mm):
 1435

 Wheelbase (mm):
 2614

 Track front/rear (mm):
 1488/1488

Luggage capacity (I) 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: 7Jx17/225/45 R17

Turning clearance circle/turning circle (m): 10.80/10.55

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): 1385/1860/475
Power to weight ratio (kg/kW; kg/hp)(empty): 11.1; 8.1

Power to weight ratio (kg/kW; kg/hp)(empty): 11.1; 8.1

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 (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 220
Acceleration 0-100 km/h (sec)*: 7.9
Acc. 80-120 km/h in 5th gear (sec)*: 10.6
Pass-by noise (dBA): 74

Fuel: unleaded premium 95 RON

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

Additional equipment can lead to increased

consumption and CO₂ values.

urban: 12.8 extra-urban: 6.8 total: 9.0

CO₂ emission (g/km): 216

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 GTC Sport	2.0 Turbo	147kW/200hp 6-speed hatchback 3 doors
Model year: Date:		2006 08/2005
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):		2.0 Turbo ECOTEC front, transverse in front of axle, 7° 50' forward inclined with liquid, sealed circuit 4 86 86 1998 8.8:1 in line; 5 main bearings cast iron/aluminum 2 overhead (DOHC), driven by toothed belt hydraulic bucket tappets v; 4 per cylinder hydraulic sequential multi point fuel injection electr. ignition map (EST) + knock sensor electric, in tank 3-way cat. conv. with 2 oxygen sensors 147/200 at 5400 73.6; 100.1
Max. torque (Nm at 1/min): Specific torque (Nm/liter): Mean effective pressure at max. power/max. torque (kPa): Average piston speed (m/s): Engine oil, capacity (l): Cooling capacity (l): Battery 12 V, capacity (Ah): Alternator 14.2 V, capacity (W):		262 at 4200 131.1 1634.10/1648.6 15.5 4.25 7.1 55 1704
Transmission Drive axle: Transmission, type: Gear ratios: Clutch, type:		front wheel drive 6-speed manual 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 dry single plate
Body Seats: Drag coefficient (c _p): Frontal area (A in m²): Index (c _w xA):		5 0.34* 2.03 0.68*
IDS chassis Wheel suspension front: Wheel suspension rear:		independent, wishbone on closed subframe, McPherson struts, twin tube gas pressure shock absorbers compound link suspension, torsion tube design with 2 control arms miniblock coil springs
Anti roll har:		twin tube gas pressure shock absorbers

front

Anti roll bar:

Brakes

Brake circuits: 2, diagonal ventilated disc. 308 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): 4290 Width (mm): 1753 Height (mm): 1435 Wheelbase (mm): 2614 Track front/rear (mm): 1488/1488

Luggage capacity (I) ECIE: 340-1070 (with tire repair kit) 302-1032 (with space-saver spare wheel/tire)

Opening luggage compartment to ground (mm): 695

819-1522 Cargo-area length (mm): Cargo-area width (mm): 944 Cargo-area height (mm): 772

Rim width (inch)(mm)/tire size: 7Jx17/225/45 R17

10.80/10.55 Turning clearance circle/turning circle (m):

Steer. wheel turns lock/lock: 2.5

Steering, ratio: electr.-hydr. power steering, 14

Steering wheel outside diameter (mm): Kerb weight/max. allowable weight/additional load (kg): 1385/1860/475 Power to weight ratio (kg/kW; kg/hp)(empty): 9.4: 6.9 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 (I), location: 52, under rear seats

Performance

Top speed (km/h)*: 234 Acceleration 0-100 km/h (sec)*: 7.8 Acc. 80-120 km/h in 5th gear (sec)*: 7.9 Pass-by noise (dBA): 74

Fuel: unleaded premium 95 RON

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

Additional equipment can lead to increased

consumption and CO2 values.

urban: 13.1 extra-urban: 7.1 total: 9.3

223 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