

Chevrolet Orlando Technical Specification Data

- Model year : 2011
- Market : Europe
- Update date : 10/2010

Powertrain	1.8L MT	2.0L Diesel MT	2.0L Diesel AT	2.0L Diesel Detuned M/T
Engine Data				
Engine, location	front, transverse in front of axle	front, transverse in front of axle	front, transverse in front of axle	front, transverse in front of axle
Cooling system	with liquid, sealed circuit	with liquid, sealed circuit	with liquid sealed circuit	with liquid sealed circuit
Cylinders, number	4	4	4	4
Bore (mm)	80,5	86	86	86
Stroke (mm)	88,2	86	86	86
Displacement (cc)	1796	1998	1998	1998
Compression ratio	10.5 : 1	16.3 : 1	16.3 : 1	16.3 : 1
Engine, type	in line; 5 main bearings	in line 4	in line 4	in line 4
Cylinder block/head, material	cast iron/aluminum	cast iron/aluminum	cast iron/aluminum	cast iron/aluminum
Camshaft(s), location	2 overhead (DOHC), driven by toothed belt	2 overhead (DOHC), driven by chain	2 overhead (DOHC), driven by chain	2 overhead (DOHC), driven by chain
Valve train	DOHC 16 valve	DOHC 16 valve	DOHC 16valve	DOHC 16valve
Valve, arrangement	4 per cylinder	4 per cylinder	4 per cylinder	4 per cylinder
Valve adjustment	mechanical tappet	automatic-hydraulic	automatic-hydraulic	automatic-hydraulic
Fuel system	multi-point injection	common-rail injection	common-rail injection	common rail-injection
Ignition system	DIS	-	-	-
Fuel pump	electric motor	electric motor	electric motor	electric motor
Emission control system	Siemens SIM2K-76	DELPHI EMS	DELPHI EMS	DELPHI EMS
Output (kW/PS at 1/min)	104 / 141@6200	120/163 @ 3800	120/163 @ 3800	96/130 @ 3800
Specific power (kW/l;PS/l)	57.8 ; 78.3	60.1/81.6	60.1/81.6	48.0/65.1
Max. torque (Nm at 1/min)	176 / 3800	360 / 2000	360 / 2000	315 / 2000
Specific torque (Nm/liter)	97,8	180.2	180.2	157.7
Mean effective pressure	1120.8 @ max. power	22.64 bar @ max. torque	22.64 bar @ max. torque	19.81 bar @ max. torque
Max. power/max. torque (kPa)	1230.8 @ max. torque	1897 @ max. power	1897 @ max. power	1517 @ max. power
Average piston speed (m/s)	18,2	14.3	14.3	14.3
Engine oil, capacity (l)	4.5L	7.1L	7.1L	7.1L
Cooling capacity (l)	6.3L	10.0L	10.0L	10.0L
Battery 12 V, capacity (Ah)	60Ah	75Ah	75Ah	75Ah
Alternator 14.2 V, capacity (W)	100A	140A	140A	140A
Transmission				
Drive axle	front wheel drive	front wheel drive	front wheel drive	front wheel drive
Transmission, type	manual	manual	automatic	manual
Gear ratios	3.818/2.158/1.481/1.121/0.886/Rev 3.545/FDR:4.176	4.167/2.130/1.321/0.954/0.755/0.623/Rev 3.917/FDR:3.545	4.584/2.964/1.912/1.446/1/0.746/Rev -2.94/FDR :2.64	4.167/2.130/1.321/0.954/0.755/0.623/Rev 3.917/FDR:3.545
Clutch, type	dry, single disc	dry, dual disc	-	dry, dual disc
Body				
Seats	7	7	7	7
Drag coefficient (c d)	0,325	0,327	0,327	0,327
Frontal area (A in m2)	2,547	2,553	2,553	2,553
Index (c w xA)	0,828	0,835	0,835	0,835
Chassis				
Wheel suspension front	McPherson strut	McPherson strut	McPherson strut	McPherson strut
Wheel suspension rear	compound crank axle	compound crank axle	compound crank axle	compound crank axle
Brakes				
Brake circuits	X-diagonals	X-diagonals	X-diagonals	X-diagonals
Brakes front, diameter (mm)	16" vent disk (300mm)	16" vent disk (300mm)	16" vent disk (300mm)	16" vent disk (300mm)

Brakes rear, diameter (mm)	16" solid disk (292mm)	16" solid disk (292mm)	16" solid disk (292mm)	16" solid disk (292mm)
ABS	4ch, 4 sensor	4ch, 4 sensor	4ch, 4 sensor	4ch, 4 sensor
Weights and dimensions				
Exterior dimension				
Length (mm)	4.652	4.652	4.652	4.652
Width (mm)	1.836	1.836	1.836	1.836
Height (mm)	1.633	1.633	1.633	1.633
Wheelbase (mm)	2.760	2.760	2.760	2.760
Track front/rear (mm)	1,584/1588	1,584/1588	1,584/1588	1,584/1588
Interior dimension				
Length (mm)	2659	2659	2659	2659
Width (mm)	1450	1450	1450	1450
Height (mm)	1246	1246	1246	1246
Leg room front/rear (mm)	1034/917/753	1034/917/753	1034/917/753	1034/917/753
Shoulder room front/rear (mm)	1450/1419/1307	1450/1419/1307	1450/1419/1307	1450/1419/1307
Head room front/rear (mm)	1020/983/945	1020/983/945	1020/983/945	1020/983/945
Luggage capacity (seat up/folded) (l)	89/458/856(VDA)	89/458/856(VDA)	89/458/856(VDA)	89/458/856(VDA)
Rim width (inch)(mm)/tire size	6.5Jx16/215/60R16 7Jx17/225/50R17 8JX18 / 235/45R18	6.5Jx16/215/60R16 7Jx17/225/50R17 8JX18 / 235/45R18	6.5Jx16/215/60R16 7Jx17/225/50R17 8JX18 / 235/45R18	6.5Jx16/215/60R16 7Jx17/225/50R17 8JX18 / 235/45R18
Turning diameter; minimum/wall to wall (m)	11.3/11.8	11.3/11.8	11.3/11.8	11.3/11.8
Steer. wheel turns lock/lock	2,74	2,74	2,74	2,74
Steering	electric power steering	hydraulic power steering	hydraulic power steering	hydraulic power steering
Steering wheel outside diameter (mm)	370	370	370	370
Kerb weight/max. allowable weight (GVW) (kg)	1528/2160	1655/2287	1659/2291	1655/2287
Power to weight ratio (kg/kW; kg/PS) (empty)	14,69230769	13,79166667	13,825	13,79166667
Max. axle load front/rear (kg)	1220/1190	1220/1190	1220/1190	1220/1190
Trailer weight - w/o brake(kg)	750	750	750	750
- w brake(kg)	1100	1500	1500	1500
Mechanical coupling weight (kg)	75	75	75	75
Ball weight (kg)	25	25	25	25
Roof Load (kg)	100	100	100	100
Fuel tank capacity (l)	64L	64L	64L	64L
Performance				
Top speed (km/h)	185 km/h	195 km/h	195 km/h	180 km/h
Acceleration 0 - 100km/h (sec)	11.6s	10.0s	11.0s	10.3s
Acc. 40 - 100 km/h in 4th gear (sec)	17.5s	12.2s	9.0s	12.7s
Acc. 80 - 120 km/h in 5th gear (sec)	18.5s	11.0s	8.4s	11.4s
Acc. 80 - 120 km/h in 6th gear (sec)	N/A	14.3s	8.4s	14.6s
Pass-by noise (dBA)	72.5 dB(A)	71.3 dB(A)	70.3 dB(A)	71.3 dB(A)
Fuel	gasoline	diesel	diesel	diesel
Fuel consumption (liter/100 km)	7.3 l/100km	6.0 l/100km	7.0 l/100km	6.0 l/100km
Fuel consumption (liter/100 km) urban	9.7 l/100km	7.9 l/100km	9.3 l/100km	7.9 l/100km
Fuel consumption (liter/100 km) extra urban	5.9 l/100km	4.9 l/100km	5.7 l/100km	4.9 l/100km
CO2 emission (g/km)	172 g/km	159 g/km	186 g/km	159 g/km
CO2 emission (g/km) urban	229 g/km	210 g/km	246 g/km	210 g/km
CO2 emission (g/km) extra urban	139 g/km	130 g/km	152 g/km	130 g/km
Emission class	Euro5	Euro5	Euro5	Euro5