

Volvo XC90 Excellence

CONT'D VOLVO XC90 →

ENGINES

Type
Configuration
Displacement, cm ³
Bore (mm)
Stroke (mm)
Engine cylinder block material
Cylinderhead material
Compression ratio
Valves, no/cylinder
Camshafts
Engine management system
Ignition sequence
Engine idling speed, rpm
Fuel, rec. octane
Max output, kW (hp)/rpm
Max torque, Nm/rpm

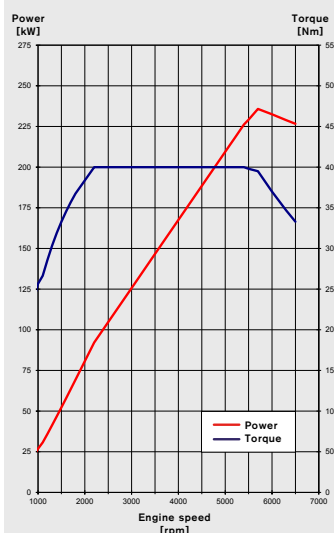
T8 Twin Engine AWD (B4204T35)
In-line 4-cyl. supercharged and turbocharged
Transverse, front wheel drive, rear electronic motor
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Integrated fuel (SFI)/ignition control systems
1 - 3 - 4 - 2
850
91-98 RON
234 (318)/6000
400/2200-5400

T6 AWD (B4204T27)
In-line 4-cyl. supercharged and turbocharged
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
10.3:1
4
2
Integrated fuel (SFI)/ignition control systems
1 - 3 - 4 - 2
825
91-98 RON
235 (320)/5700
400/2200-5400

D5 AWD (D4204T11)
In-line 4-cyl. twin turbo diesel
Transverse, all wheel drive
1969
82.0
93.2
Aluminium
Aluminium
15.8:1
4
2
Electronically controlled common rail direct injection
1 - 3 - 4 - 2
825
Diesel fuel according to EN590*
165 (225)/4250
470/1750-2500

POWER AND TORQUE →

N/A



Manual gearbox/final drive
Automatic gearbox/final drive
PERFORMANCE
Gearbox
Acceleration, 0-100 km/h (sec)
Top speed, km/h
Fuel consumption l/100 km (Combined)
CO ₂ g/km

-
AW TG-81SC 3.20
Automatic
5.9
230
2.5
59

-
AW TG-81SC 3.329
Automatic
6.5
230
8.0 (7.7 ^{*)}
186 (179 ^{*)}

-
AW TG-81SC 3.075
Automatic
7.8
220
5.8 (5.7 ^{**})
152 (149 ^{**})

* Sales version

*Maximum biodiesel (RME) content 7%
**Sales version

Battery type
Battery content, total amount of energy (kwh)
Battery charging time*, at 240V: 16A/10A/6A fuse (hours) 110V:
Electrical motor max power (kW/rps)
Electrical motor max torque (Nm/rps)
Driveline max power (hp)
Driveline max power (kW)
Driveline max torque (Nm)
Battery placement

Lithium-ion battery
9.2
2.5/3.5/6.0
5.0/7.0/12.0
60/100
240/0-50
~400 (318+82)
234+60
~640 (400+240)
Centrally in the tunnel of the car

*) Time pending on e.g. ambient temp

TRANSMISSIONS

8-speed automatic transmissions.

Ratio	AW TG-81SC
First	5.250
Second	3.029
Third	1.950
Fourth	1.457
Fifth	1.221
Sixth	1.000
Seventh	0.809
Eighth	0.673
Reverse	4.015

MEASUREMENTS AND VOLUMES

EXTERIOR MEASUREMENTS (CM)

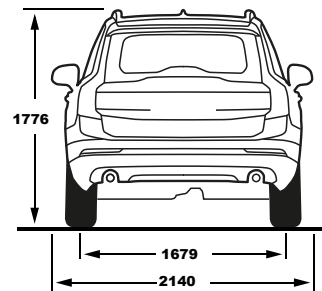
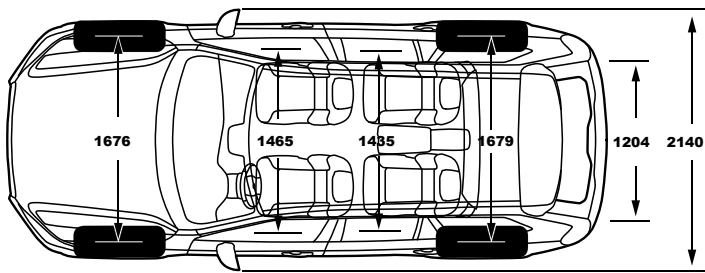
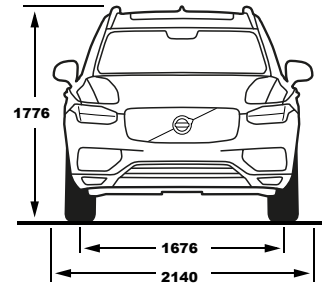
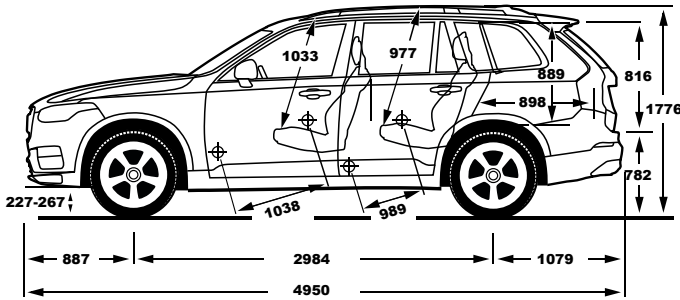
Length	495.0
Width (incl mirrors outer edge)	214.0
Width (incl mirrors folded)	200.8
Height	177.6
Wheelbase	298.4
Overhang (front/rear)	88.7/107.9
Track, front, with air suspension (Tire (width): 275)	167.6
Track, rear, with air suspension (Tire (width): 275)	167.9
Ground clearance (with air suspension)	22.7-26.7

INTERIOR MEASUREMENTS (CM)

Headroom (front/rear)	98.7/97.7
Headroom maximum, (front)	103.3
Passenger comp width at shoulder height (front/rear)	146.5/143.5
Leg room (front/rear)	103.8/98.9
Cargo length	89.8
Cargo height	88.9
Rear opening height	81.6
Width of luggage compartment between wheelhouses	113.0

WEIGHTS/MISCELLANEOUS

Weight, kg (Running order, min-max, depending on setup)	~2350
Fuel tank, l (All / B4204T35)	71/50
Max. trailer weight, kg	2400-2700
Max roof load, kg	100
Drag coefficient, Cd	0.29



CHASSIS

Suspension	front	Double Wishbones with Air Suspension and 4C Continuously Controlled Shock Absorbers, Stabilizer Bar.
	rear	Integral Axle with Air Suspension and 4C Continuously Controlled Shock Absorbers, Stabilizer Bar.
Steering		Power Assisted Rack and Pinion Steering
Turning circle, (curb to curb)		12.1 m (Tire 275)
Braking system		Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)
Braking distance, 100-0 km/h		36 m
Brake disc diameter	front	345 mm
	rear	320 mm