

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 |

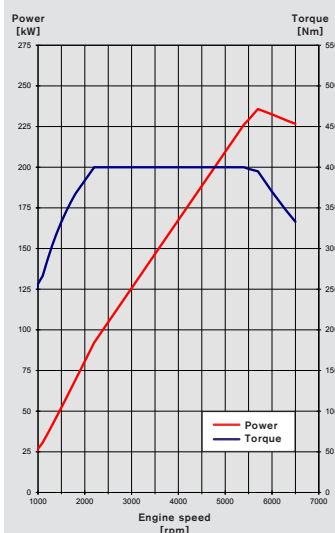
| |
|--|
| T8 AWD (B1APHEV) |
| In-line 4-cyl. supercharged and turbocharged |
| Transverse, front wheel drive, rear electronic motor |
| 1969 |
| 82.0 |
| 93.2 |
| Aluminium |
| Aluminium |
| 10.3:1 |
| 4 |
| 2 |
| Integrated fuel (SFI)/ignition control systems |
| 1 - 3 - 4 - 2 |
| 850 |
| 91-98 RON |
| 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 |

| |
|--|
| T5 AWD (B4204T23) |
| In-line 4-cyl. turbocharged |
| Transverse, all wheel drive |
| 1969 |
| 82.0 |
| 93.2 |
| Aluminium |
| Aluminium |
| 10.8:1 |
| 4 |
| 2 |
| Integrated fuel (SFI)/ignition control systems |
| 1 - 3 - 4 - 2 |
| 850 |
| 91-98 RON |
| 187 (254)/5500 |
| 350/1500-4800 |

POWER AND TORQUE →

N/A



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 |
| 7.7* |
| 179* |

| |
|------------------|
| - |
| AW TG-81SC 3.329 |
| Automatic |
| N.A |
| N.A |
| 7.5 |
| 174 |

* 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 |

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 |

*) Time pending on e.g. ambient temp

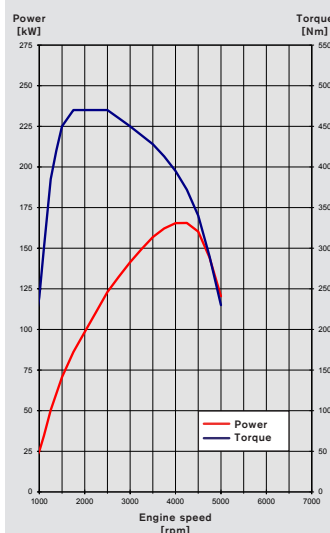
ENGINES

| |
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| Type |
| Configuration |
| Displacement, cm ³ |
| Bore (mm) |
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| Fuel, rec. octane |
| Max output, kW (hp)/rpm |
| Max torque, Nm/rpm |

POWER AND TORQUE →

| |
|--------------------------------------|
| 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 |

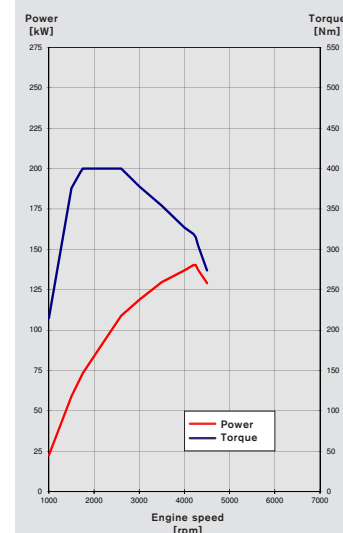
| |
|--|
| D5 AWD (D4204T11) |
| In-line 4-cyl. twin turbo diesel |
| Transverse, all wheel drive |
| 1969 |
| 82.0 |
| 93.2 |
| Aluminium |
| Aluminium |
| 15.8:1 |
| 4 |
| 2 |
| Electronically controlled common rail direct injection |
| 1 - 3 - 4 - 2 |
| 825 |
| Diesel fuel according to EN590* |
|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



| | |
|------------|-------|
| - | |
| AW TG-81SC | 3.075 |
| Automatic | |
| 7.8 | |
| 220 | |
| 5.7** | |
| 149** | |

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

| |
|--|
| D4 (D4204T14) |
| In-line 4-cyl. twin turbo diesel |
| Transverse, front 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* |
| 140 (190)/4250 |
| 400/1750–2500 |



| | |
|------------|------|
| - | |
| AW TG-81SC | 3.20 |
| Automatic | |
| N.A | |
| N.A | |
| 5.3 | |
| 139 | |

*Maximum biodiesel (RME) content 7%

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, (Tire (width): 235 / 275) | 166.5/167.3 |
| Track, front, with air suspension (Tire (width): 235 / 275) | 166.8/167.6 |
| Track, rear, (Tire (width): 235 / 275) | 167.7/167.5 |
| Track, rear, with air suspension (Tire (width): 235 / 275) | 167.1/167.9 |
| Ground clearance (Standard chassie / with air suspension) | 23.8/22.7-26.7 |

WEIGHTS/MISCELLANEOUS

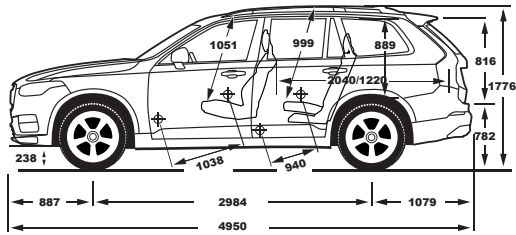
| | |
|---|-----------|
| Weight, kg (Running order, min-max, depending on setup) | 2078-2343 |
| Fuel tank, l (All / B1APHEV) | 71/50 |
| Max. trailer weight, kg | 1800-2700 |
| Max roof load, kg | 100 |
| Drag coefficient, Cd | 0.29 |

INTERIOR MEASUREMENTS (CM)

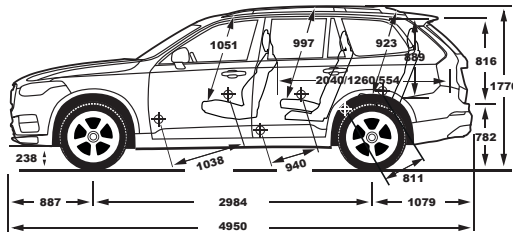
| | |
|---|-------------------|
| Headroom without panorama roof (front/rear) (5 seat) | 99.8/99.9 |
| Headroom without panorama roof (front/rear/third row) (7 seat) | 99.8/99.7/92.3 |
| Headroom with panorama roof (front/rear) (5 seat) | 98.7/97.9 |
| Headroom with panorama roof (front/rear/third row) (7 seat) | 98.7/97.9/92.3 |
| Headroom maximum, without panorama roof (front) | 105.1 |
| Headroom maximum, with panorama roof (front) | 103.3 |
| Passenger comp width at shoulder height (front/rear) (5 seat) | 146.5/143.5 |
| Passenger comp width at shoulder height (front/rear/third row) (7 seat) | 146.5/143.5/119.2 |
| Leg room (front/rear) (5 seat) | 103.8/94.0 |
| Leg room (front/rear/third row) (7 seat) | 103.8/94.0/81.1 |
| Cargo volume, including under floor storage (ISO V214-1)(litres)(5/7/T8 seat) | 1886/1868/1816 |

| | |
|--|-------------|
| Cargo length from the first seatback to the tailgate measured at: | |
| - the height of the floor covering | 204.0 |
| Cargo length from the second seatback to the tailgate measured at: | |
| - the height of the floor covering (5/7 seat) | 122.0/126.0 |
| Cargo height (rear wheel center and car center line) | 88.9 |
| Rear opening height (car center line) | 81.6 |
| Width of luggage compartment between wheelhouses | 113.0 |

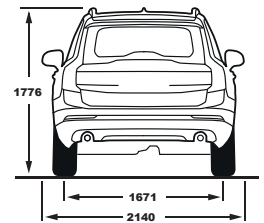
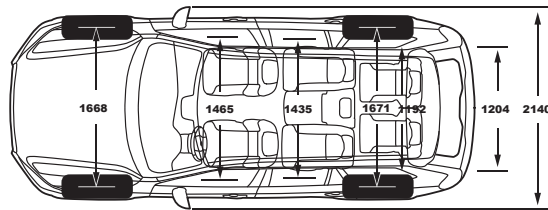
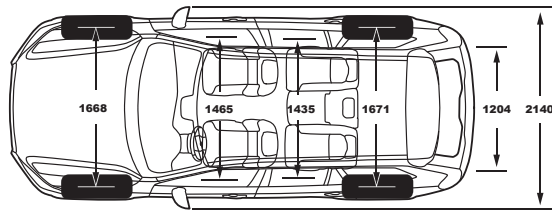
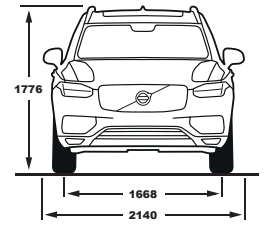
5 SEAT



7 SEAT



5 & 7 SEAT



CHASSIS

| | | |
|--------------------------------|-------|---|
| Suspension | front | Double Wishbone Suspension, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension |
| | rear | Integral Axle with Transverse Composite Leaf Spring, Hydraulic Shock Absorbers, Stabilizer Bar. Optional Air Suspension |
| Steering | | Power Assisted Rack and Pinion Steering |
| Turning circle, (curb to curb) | | 11.8 m/12.1 m (Tire 235 / 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 |