



2016 XC90 Data Sheet

Volvo Cars of North America

Engine	T6 AWD	T8 AWD Twin Engine Plug-In Hybrid
Type	Inline 4-cyl. supercharged and turbocharged	Inline 4-cyl. supercharged and turbocharged
Configuration	Transverse, All-Wheel-Drive	Transverse, e-AWD
Displacement, cm3	1969	1969
Bore (mm)	82	82
Stroke (mm)	93.2	93.2
Engine cylinder block material	Aluminum	Aluminum
Cylinder head material	Aluminum	Aluminum
Compression ratio	10.3:1	10.3:1
Valves, no/cylinder	4	4
Camshafts	2	2
Engine management system	Integrated fuel (SFI)/ignition control systems	Integrated fuel (SFI)/ignition control systems
Ignition sequence	1 - 3 - 4 - 2	1 - 3 - 4 - 2
Engine idling speed, rpm	825	850
Fuel type, recommended	Premium	Premium
Combined HP	-	400
Max engine output, hp/rpm	316 / 5700	313 / 6000
Max electric motor output, hp		87
Combined Torque, lb-ft		472
Max engine torque, lb-ft/rpm	295 / 2200-4500	295 / 2200-4500
Max electric motor torque, lb-ft		177
Battery Type		Lithium-ion
Battery Content, Total amount of energy (kWh)		9.2
Battery Charging time @ 220V 16A/10A/6A Fuse (Hours)		2.5 / 3.5 / 6.0
Battery Placement		Centrally located in tunnel of car
Electrical motor max power		65 kW

PERFORMANCE

Acceleration (0-60 mph in seconds)	6.1	5.3 (preliminary)
Top speed, MPH	130	130
Fuel Economy MPG	25 Highway /20 City / 22 Combined	>59 MPGe City (preliminary)

TRANSMISSION

8-speed automatic gearbox		
Ratio	AW TG-81SC	AW TG-81SC
First	5.250	5.250
Second	3.029	3.029
Third	1.950	1.950
Fourth	1.457	1.457
Fifth	1.221	1.221
Sixth	1.000	1.000
Seventh	0.809	0.809
Eighth	0.673	0.673
Reverse	4.015	4.015
Final Drive	3.329	3.200

MEASUREMENTS AND VOLUMES (In Inches)

Exterior Measurements

Length	194.8	194.8
Width (including mirrors / mirrors folded)	84.3 / 79.1	84.3 / 79.1
Height	69.9	69.9
Wheelbase	117.5	117.5
Overhang (front/rear)	34.9 / 42.5	34.9 / 42.5
Track, front	65.7	65.7
Track, rear	65.8	65.8
Ground clearance	9.3	9.4

Interior Measurements

Headroom with panorama roof (front/rear/third row)	38.9 / 38.5 / 35.5	38.9 / 38.5 / 36.3
Shoulder width (front/rear/third row)	57.7 / 56.5 / 46.9	57.7 / 56.5 / 46.9
Leg room (front/rear/third row)	40.9 / 37.0 / 31.9	40.9 / 37.0 / 31.9
Cargo volume, Max (cu. ft.)	85.7	85.7
Cargo volume, behind 2nd Row (cu. ft.)	41.8	41.8
Cargo volume, behind 3rd Row (cu. ft.)	13.0	13.0
Weights/Miscellaneous		
Curb Weight (lb.)	4,627	5,059
Gross Vehicle Weight (lb.)	6,060	6,035
Towing Capacity (lb.)	5,000	5,000
Fuel tank (Gal.)	18.8	13.2
Max roof load (lb.)	220	220
Drag coefficient, Cd	0.29	0.29
