ASSISTED DRIVING 2020



SPECIFICATION

SYSTEM NAME	Pilot Assist
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	
AEB Vulnerable Road User	
Lane Support Systems	
Speed Assistance Systems	
ALSO AVAILABLE ON	S/V60 - S/V90 - XC40 - XC60 - XC90

Comments

Volvo's system name **Pilot Assist** accurately portrays system functionality. The promotional material and the handbook correctly indicate the limitations of the system capabilities. Status information is clear, and the V60 offers a head-up display showing the system status in the driver's direct line of sight. Volvo did not equip the V60 with an internal camera and relies only on steering wheel input for Driver Monitoring. The system balances driver steering input with lane guidance, promoting co-operative driving.

Volvo combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. The system adapt speed for upcoming curves. The V60 avoids a collision with moving vehicles in the ACC test scenarios but fails to respond to stopped cars. AEB interventions provide limited additional support in critical situations. The driver is supported through the S-Bend, staying centred in the lane at all test speeds. The vehicle has an Active Blindspot system designed to prevent lane changing into adjacent vehicles, but it fails to support at higher lateral speeds. A lane-change assist function is not available. In case of an unresponsive driver, the V60 deactivates the system leaving the vehicle without control. If the radar or camera are blocked the V60 provides a timely warning and prevents system activation.

The Volvo V60 provides a good level of Vehicle Assistance with a similar level of Driver Engagement but a Moderate Safety Backup resulting in a Moderate but balanced system.

40R SAFER C



Total

ASSISTANCE COMPETENCE

DRIVER ENGAGEMENT

78.3 / 100 PTS

10.0 / 25 Pts

25.0 / 25 Pts

71%

CONSUMER INFORMATION 25.0 / 25 Pts SYSTEM NAME Pilot Assist MARKETING MATERIAL 8 Pilot Assist | Volvo Viewed 12 September 2020 QUICK START GUIDE VEHICLE HANDBOOK PDF Viewed 12 September 2020

SYSTEM STATUS	18.3 / 25 Pts
Continuous System Status Indicator	
System Status Change Indicator	

DRIVER MONITORING

DRIVING COLLABORATION

Steering to avoid an obstacle





EURO

ASSISTANCE COMPETENCE		
	/1.9/	100 PTS
SPEED ASSISTANCE	21.0 / 2	25 Pts

SPEED ASSIST SYSTEMS			
	Vehicle response to fixed Speed limits	At speed at sign	
	Vehicle response to variable Speed limits	Slowing down at sign	

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for round-abouts



Speed adaptation for junctions



FITTED TO THE VECHILE

- NOT AVAILABLE



ADAPTIVE CRUISE CONTROL PERFORMANCE

Euro NCAP © 2020 Volvo V60 4/7

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Approaching a stationary car
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Approaching a slower moving car





Car cutting-in in front

Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	*

ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	
System assistance maintained by	Automatic resume within 5s of stop and driver input required over 5s



20.9 / 40 Pts

71%

Total







Total

ASSISTANCE COMPETENCE

STEERING ASSISTANCE

30.0 / 35 Pts

71%

Steering in an S-curve



Camera

Radar

Camera

Radar

SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE

SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE

System can NOT be engaged after a 5 minute drive

System can NOT be engaged after a 5 minute drive

System cancels within 2 minutes after blocking

System stays active after sensor blocking



Visual Warning within 5 minutes after sensor blocking

49%

SAFETY BACKUP Total SYSTEM FAILURE 20.0 / 25 Pts ENGAGEMENT WARNING SENSOR BLOCKED AT START-UP Camera System can NOT be engaged after a 5 minute drive Visual Warning within 5 minutes after sensor blocking Radar System can NOT be engaged after a 5 minute drive Visual Warning within 5 minutes after sensor blocking

UNRESPO	INSIVE DRIVER INTERVENTION			0.0 / 25 Pts
Hands Off	Warning Timeline			
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0	,		i	→ time



SAFETY BACKUP	Total	49%
COLLISION AVOIDANCE	29.6 /	50 Pts

Approaching a stationary car





Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

