



**Volvo V60**  
Pilot Assist

2020



**MODERATE**



ASSISTANCE  
COMPETENCE



71%

SAFETY  
BACKUP



50%

## 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.**

**ASSISTANCE COMPETENCE**

Total 71%

**DRIVER ENGAGEMENT**

78.3 / 100 PTS

**CONSUMER INFORMATION** 25.0 / 25 Pts

SYSTEM NAME	Pilot Assist
MARKETING MATERIAL	Pilot Assist   Volvo Viewed 12 September 2020
QUICK START GUIDE	
VEHICLE HANDBOOK	Viewed 12 September 2020

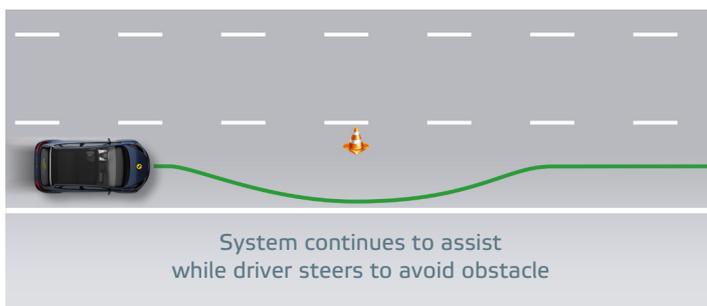
**SYSTEM STATUS** 18.3 / 25 Pts

Continuous System Status Indicator	
System Status Change Indicator	

**DRIVER MONITORING** 10.0 / 25 Pts

**DRIVING COLLABORATION** 25.0 / 25 Pts

Steering to avoid an obstacle



GOOD
  ADEQUATE
  MARGINAL
  WEAK
  POOR

**ASSISTANCE COMPETENCE**

Total 71%

**VEHICLE ASSISTANCE**

71.9 / 100 PTS

**SPEED ASSISTANCE**



21.0 / 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 roundabouts



Speed adaptation for junctions



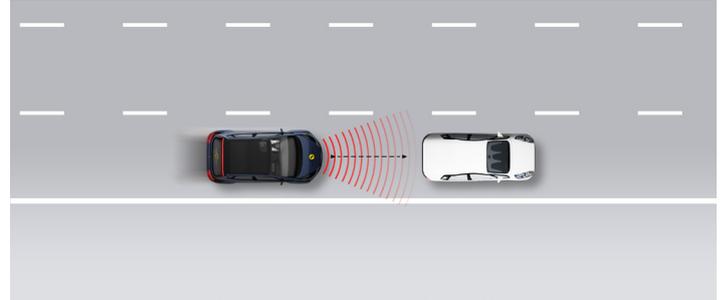
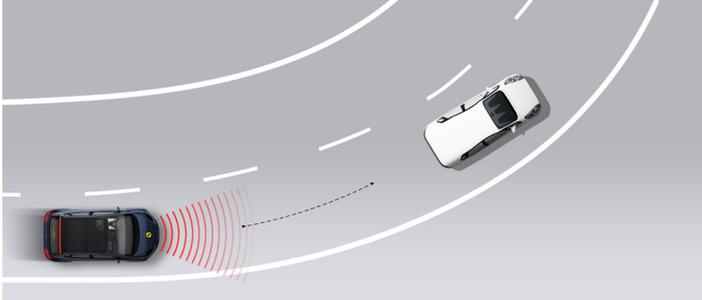
FITTED TO THE VEHICLE    NOT AVAILABLE

**ASSISTANCE COMPETENCE**

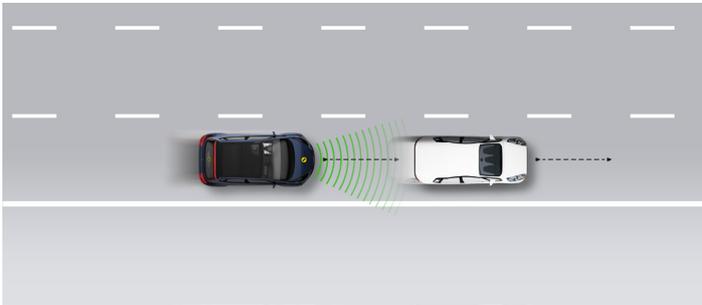
Total 71%

**ADAPTIVE CRUISE CONTROL PERFORMANCE** 20.9 / 40 Pts

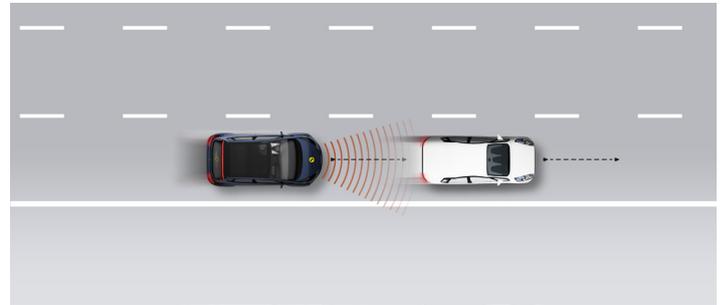
Approaching a stationary car



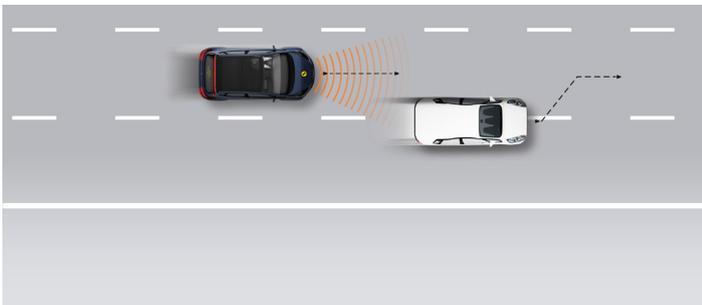
Approaching a slower moving car



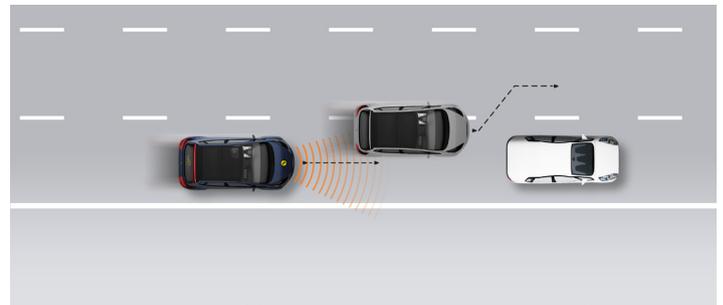
Approaching a braking car



Car cutting-in in front



Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	<b>✗</b>

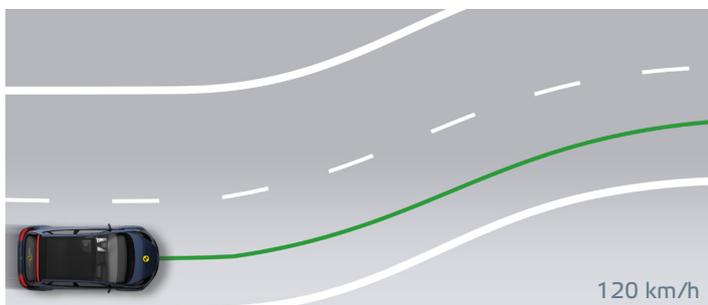
ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	<b>●</b>
System assistance maintained by	Automatic resume within 5s of stop and driver input required over 5s

**ASSISTANCE COMPETENCE**

Total 71%

**STEERING ASSISTANCE** 30.0 / 35 Pts

Steering in an S-curve



80 km/h	●
100 km/h	●
120 km/h	●
Lane Change Assist	✘

**SAFETY BACKUP**

Total 50%

SYSTEM FAILURE 20.0 / 25 Pts

	ENGAGEMENT	WARNING
<b>SENSOR BLOCKED AT START-UP</b>		
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
<b>SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE</b>		
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
<b>SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE</b>		
Camera	System cancels within 2 minutes after blocking	Visual Warning within 5 minutes after sensor blocking
Radar	System stays active after sensor blocking	Visual Warning within 5 minutes after sensor blocking

UNRESPONSIVE DRIVER INTERVENTION 0.0 / 25 Pts

Hands Off Warning Timeline

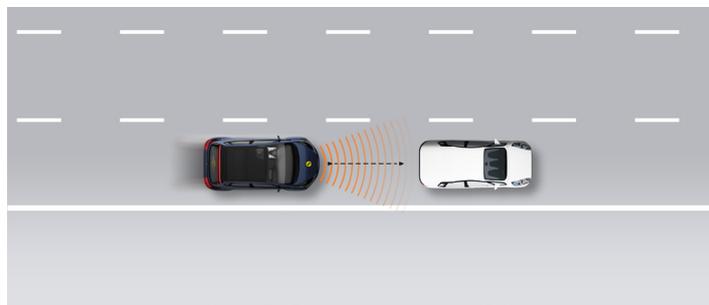
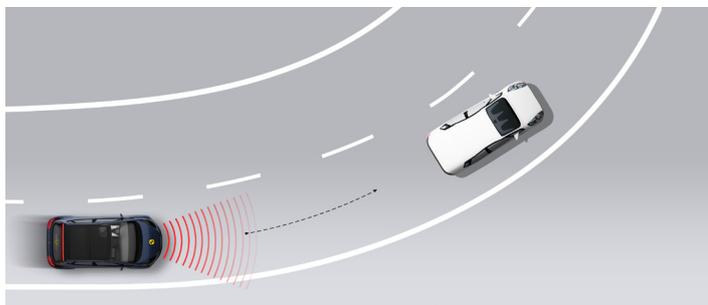


 SAFETY BACKUP

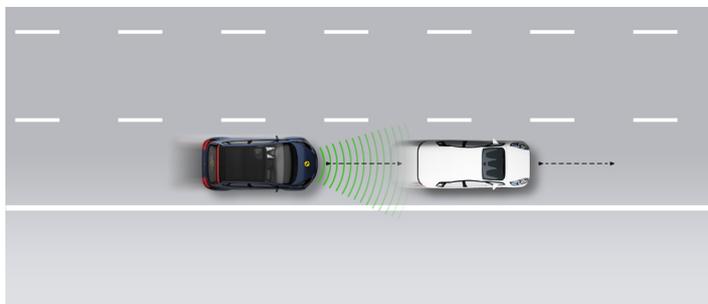
Total 50%

COLLISION AVOIDANCE  30.9 / 50 Pts

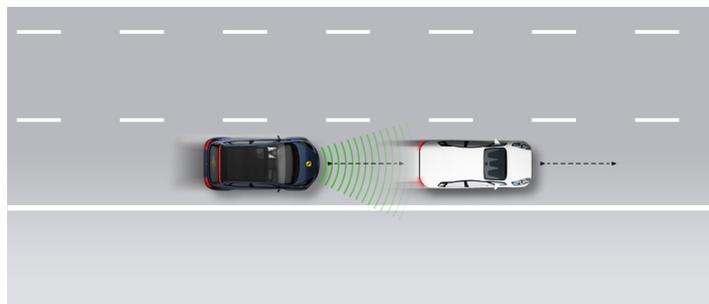
Approaching a stationary car



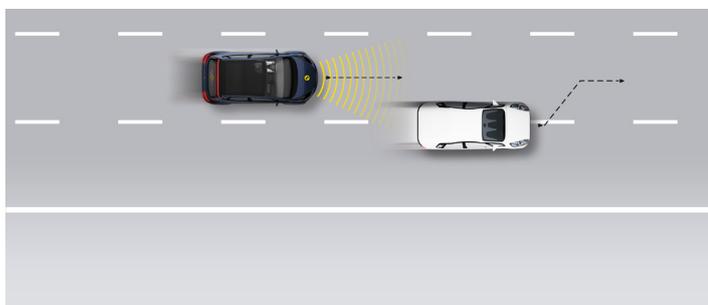
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

