

Volvo V40 D2 'Momentum'

AEB Tested System: City Safety & Collision Warning with Full Auto-Brake



AEB City

AEB City systems are assessed by Euro NCAP at a speed range of 10-50 km/h. Even at lower speeds, the driver does not have sufficient time to respond to a warning. Therefore, Euro NCAP only evaluates the automatic braking function for these low speed situations.

AEB TEST RESULTS (maximum is 3)

2.9

Good



AEB Inter-Urban

For AEB Inter-Urban systems, Euro NCAP evaluates the automatic brake function and the forward collision warning function in three different driving scenarios. Inter-Urban systems operate over the speed range 30-80km/h.

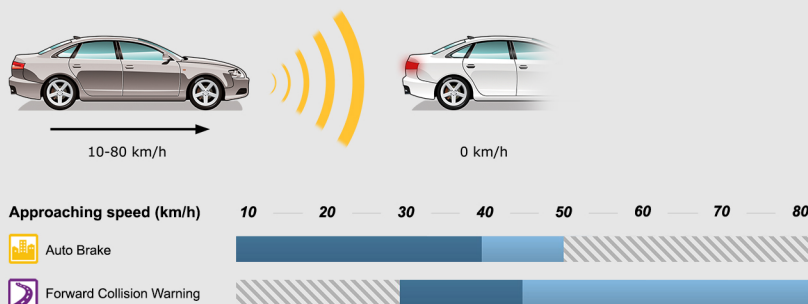
2.6

Good

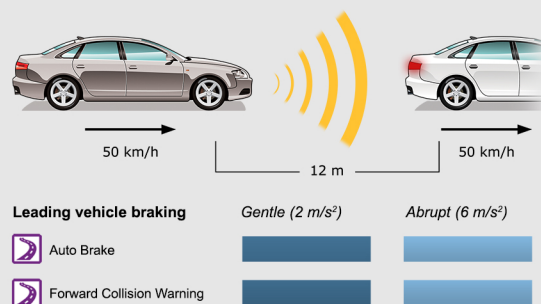
AEB Detailed Test Results

■ Crash avoided ■ Speed reduced ■ No crash mitigation ■ Not applicable

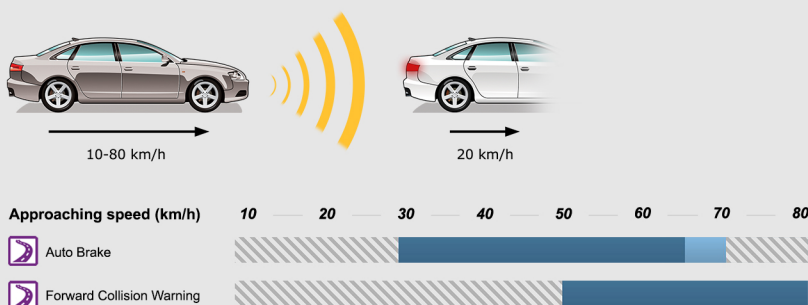
APPROACHING A STATIONARY VEHICLE



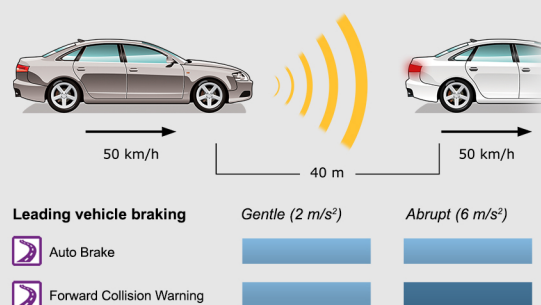
APPROACHING A BRAKING VEHICLE (short headway)



APPROACHING A SLOW MOVING VEHICLE



APPROACHING A BRAKING VEHICLE (long headway)



About the system tested

Euro NCAP has tested a 2013 model year Volvo V40 equipped with a system called City Safety & Collision Warning with Full Auto-Brake. The system uses a combination of Camera, Radar and Lidar sensors to help a distracted driver to avoid an accident or to mitigate its severity. In the speed range 0-200km/h, the system will issue a warning to the driver to try to draw his attention to the critical situation. If the driver responds to the warning, the system will support the braking action by maximising or optimising the braking force needed to avoid the accident. If the driver takes no action, the system will ultimately apply the brakes autonomously to try to stop the vehicle before the accident. City Safety & Collision Warning with Full Auto-Brake can be switched off by the driver but defaults back on again at the start of every journey.

