

EUROPEAN NEW CAR ASSESSMENT PROGRAMME

Global NCAP Consumer Champion Award 2013
Prince Michael International Award 2009
HR Auto Safety Award 2009
What Car? Safety 2009
Autobest Safetybest Award 2004
Prince Michael Premier Award 2003
Prince Michael International Award 2003
Quattroruote Special Award for Safety 2001
IMI Gold Medal Awarded 2000
FT Global Automotive Award 1999
Autocar safety Award 1999

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Press Release

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On the Road with Autonomous Emergency Braking Systems

Brussels 29 October – Euro NCAP releases the first results of rear-end crash avoidance systems tested against the upcoming 2014 rating protocol. Eight vehicles have been compared with respect to their performance on the test track.

Real world claims data suggest that Autonomous Emergency Braking (AEB) systems can reduce rear-end crashes by one quarter or more and lead to a significant reduction of injuries. As from January 2014, Euro NCAP will in its rating scheme give credit to vehicle manufacturers that equip their models with robust forward collision warning and/or automatic braking technology.

The technologies available on the market today can be divided into groups based on the type of crash they are designed to mitigate. 'AEB City' works at low driving speeds and targets reduction in rear end shunts often associated with whiplash neck injuries. 'Inter-Urban AEB' works at higher speeds and targets fatal and serious injury crashes that may be caused by driver inattentiveness or distraction. Euro NCAP tests both types of systems and scores them between 0-3 points, which translates to Good, Adequate or Marginal.

Cars tend to travel at closer distance in slow traffic which minimizes the driver's ability to avoid a crash at the last minute. As a result Euro NCAP focuses on the automatic braking function in its AEB City tests up to 50 km/h. Euro NCAP tested low speed AEB City system performance on 6 vehicles:

Good Mercedes Benz E-Class - PRE-SAFE Brake

Good Volvo V40 - City Safety & Collision Warning with Full Auto-Brake

Good Mitsubishi Outlander - Forward Collision Mitigation

Adequate
First 500L - City Brake Control
Ford Focus - Active City Stop

In this test, top marks were earned by PRE-SAFE Brake (3 points) on the Mercedes Benz E-Class; City Safety & Collision Warning with Full Auto-Brake (2.9 points) on the Volvo V40, and Forward Collision Mitigation on the Mitsubishi Outlander (2.1 points); whereas the systems on the Volvo XC60 (1.9 points), Fiat 500L (1.8 points) and Ford Focus (1.7 points) were rated as Adequate.

At higher driving speeds, there is often sufficient time for the driver to take action to avoid the crash. Therefore, AEB Interurban systems often provide a Forward Collision Warning function with enhanced braking performance, which can be complemented with an automatic brake function in case the driver does not respond to the warning. Euro NCAP assesses the system performance both where the driver brakes and where there is no reaction to the warning for their ability to avoid and mitigate crashes up to speeds of 80 km/h. The 5 vehicles tested for AEB Interurban are:

Good Mercedes Benz E-Class - PRE-SAFE Brake

Good Volvo V40 - City Safety & Collision Warning with Full Auto-Brake

Good Volkswagen Golf VII - Front Assist

Adequate Mitsubishi Outlander - Forward Collision Mitigation
Marginal Honda Civic - Collision Mitigation Brake System

The results in this test showed bigger differences between systems. The three best-scoring systems were: PRE-SAFE Brake (2.7 points) on the Mercedes Benz E-Class, City Safety & Collision Warning with Full Auto-Brake (2.6 points) on the Volvo V40 and Front Assist (2.2 points) on the VW Golf. The systems on the Mitsubishi Outlander rated as Adequate (1.9 points) and on the Honda Civic as Marginal (0.44 points).





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In addition to the AEB tests, Euro NCAP has repeated the AEB Fitment survey of 2012 to see how AEB fitment has evolved in Europe. Manufacturers who had a system available last year continue to do so in 2013 and the rates of fitment have, in general, shown a modest increase over the last year. Unfortunately, most car makers still do not offer crash avoidance systems on any of their models.

Michiel van Ratingen, Euro NCAP Secretary General, says: 'With the limited number of systems available and tested, we can already see real differences in their performance and expected real world benefit. However we compliment the manufacturers of the systems in today's launch, whether the system scored good, adequate or marginal, for already offering this technology onto their cars and hope that our results will help them to further develop their systems'.

Euro NCAP's decision to include AEB in the rating reflects a growing awareness of the potential of these active safety systems and car makers are now clearly challenged to raise the availability and performance of AEB on new car models. The introduction of AEB along with Lane Departure Warning and Lane Keep Assist technology will define Euro NCAP's 'Year of Active Safety' in 2014.

Note: AEB technology is a support system that should not be overly relied upon by the driver. In more challenging situations, AEB activation may not be sufficient or not timely enough to avoid a crash completely, although the resulting impact speed may be significantly reduced. According to Euro NCAP, good occupant protection remains vital to avoid serious consequences.

More details on the tests, AEB systems and AEB Fitment survey can be found on our website. For media information, please contact Marie Brasseur, Euro NCAP Communications Manager at marie brasseur@euroncap.com or +32 2 4007746.

Car models and AEB systems tested:

Car Make	Car Model	Model Tested	AEB System	City	City_Score (out of 3)	Inter-Urban	Inter-Urban Score (out of 3)
Mercedes_Benz	E-Class	E250 CDI Elegance	PRE-SAFE Brake	Yes	3	Yes	2,705
Volkswagen	Golf VII	1.2 TSI Bluemotion Comfortline	Front Assist	No	NA	Yes	2,204
Honda	Civic	2.2D EX-GT	Collision Mitigation Brake System	No	NA	Yes	0,439
Mitsubishi	Outlander	2.2DI-D Instyle	Forward Collision Mitigation	Yes	2,107	Yes	1,866
Fiat	500L	1.4 Lounge	City Brake Control	Yes	1,75	No	NA
Volvo	XC60	2.4 T5 Momentum	City Safety	Yes	1,914	No	NA
Ford	Focus	2.0D Titanium	Active City Stop	Yes	1,693	No	NA
Volvo	V40	D2 Momentum	City Safety & Collision Warning with Full Auto-Brake	Yes	2,908	Yes	2,552

About Euro NCAP

Euro NCAP organizes crash tests on new vehicles and provides motoring consumers with a realistic and independent assessment of the safety performance of some of the most popular cars sold in Europe. Established in 1997 and backed by several European Governments, motoring, consumer and insurance organizations, Euro NCAP has rapidly become a catalyst for encouraging significant safety improvements to new car design. Visit our website: www.euroncap.com

