

Crash Tests

New Car Safety

Holden Commodore

09/2009 on 04/2013 - Frontal+Side+Head

Overall Evaluation



Overall Score

Variant: VE Omega Utility

33.16 out of 37

Engine: 3.6 V6 auto
Category: Utility

Model History and Safety Features

This rating applies to all variants of the VE Commodore Ute (model year 2010) built from September 2009.

Dual front airbags, seat-mounted side airbags, head-protecting side curtains, antilock brakes (ABS) with electronic brake distribution (EBD) and electronic stability control (ESC) are standard. Advanced seat belt reminders are fitted to both front seats.

Overall Evaluation: 5

5 Stars. The Commodore Ute scored 13.57 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious chest injury was marginal for the driver.

The vehicle scored 15.59 out of 16 in the side impact crash test. There was a slight risk of serious chest injury for the driver. A further 2 points were earned in the optional pole test. This enabled the Commodore Ute to become the first 5-star utility rated by ANCAP.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 2.50 pts, upper legs 2 pts, lower legs 3.07 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 25 mm and downwards 3mm. The steering wheel hub moved 58mm forward, 52mm downward and 5 mm sideways. The front ("A") pillar moved 11 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4 pts, chest 2.84 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and it was within reach of a 5-star rating. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

Pedestrian rating (v4.1)



The following rating is based on ANCAP tests of a Commodore sedan. The Utility can be expected to offer similar protection.

Child head impacts	5.98
Adult head impacts	3.00
Upper leg impacts	Zero
Lower leg impacts	Zero
Total (out of 36)	8.98

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passn	Driver
Head			
- HIC	262	180	28
- Acceleration (g for 3ms)	39.9	33.6	23.1
Neck			
- Shear (kN)	0.31	0.46	
- Tension (kN)	0.95	0.79	
- Extension (Nm)	7.7	21.4	
Chest			
- Acceleration (g for 3ms)	37.2	32.1	
- Compression (mm)	32.47	28.7	23.5
- Viscous Criterion (m/s)	0.09	0.07	0.16
Abdomen			
- Force (kN)			0.53
Pelvis			
- Force (kN)			1.58
Upper Legs Force (kN)			
- Left	0.45	0.15	
- Right	0.55	0.29	
Knee Displacement (kN)			
- Left	0.5	0.37	
- Right	0.16	0.37	
Lower Legs Force (kN)			
- Left	2.68	1.15	
- Right	3.06	1.66	
Index (Upper Lower)			
- Left	0.38 0.61	0.3 0.18	
- Right	0.32 0.23	0.42 0.26	

Bonus points (maximum 5)

Pole Test: 2 points

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	4 points
Structure	Note: Steering column & pedal movements are measured relative to the driver's seat

Modifiers for side impact test scores

Head		
Chest	Backplate load	0.11 deduction
Upper leg		
Lower leg		
Foot score		
Structure		



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