Crash Tests

New Car Safety

Holden Colorado

03/2008 on 12/2012 - Dual Frontal

Overall Evaluation

Overall Score **21.4 out of 37**
Variant: LX Crew cab 4x4 Engine: 3 litre diesel
Category: Utility

High risk of life-threatening chest injury

Model History and Safety Features

The tested model of Holden Colorado was introduced in Australia during 2008. This assessment is based on crash tests of the equivalent Holden Rodeo published by ANCAP in 2006.
Dual front airbags are standard equipment. Antilock brakes (ABS) with electronic brakeforce distribution are standard on all LX 4x4 versions but are not available for the DX versions.
A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt. Child restraint anchorages are fitted behind the rear seat but are difficult to reach. Hazard lights activated during the crash.

Overall Evaluation: 3

3 Stars. The Colorado 4x4 scored 5.4 out of 16 in the offset crash test. The passenger compartment held its shape reasonably well. Protection from serious chest injury was poor for the driver and weak for the passenger. Leg protection was marginal for the driver.
The vehicle was awarded a default score of 16 out of 16 in the side impact crash test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 3 pts, chest zero pts, upper legs 2 pts, lower legs 0.40 pts.
The passenger compartment held its shape reasonably well in the offset crash test. The brake pedal moved rearwards by 124 mm and upwards 36 mm. The footwell ruptured. The steering wheel hub moved rearwards 11 mm, upwards 100 mm and sideways 11 mm. The front ("A") pillar moved 56 mm rearwards. The driver's door opened very late in the crash but subsequent investigations revealed it was an isolated incident, not representative of the model and no points were deducted. After the crash the other doors opened with normal effort.
The airbag cushioned the head of the driver and contact was reasonably stable. Steering column components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag and contact was stable.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts. Default scores awarded.
The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. It is based on a regulation test but the regulation does not apply to vehicles with a high seat height like the Colorado 4x4. Experience shows that such vehicles can be expected to perform well in this test so ANCAP has decided to award full score for these vehicles instead of conducting a crash test.
The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points.

Pedestrian rating (v4.1)

Two adult headform locations passed and two were marginal. All other locations were poor.

Child head impacts	Zero
Adult head impacts	7.67
Upper leg impacts	Zero
Lower leg impacts	Zero
Total (out of 36)	7.67

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 aa 50km/h (v4.1)
	Driver	Passn	Driver
Head			
- HIC	819	656	
- Acceleration (g for 3ms)	77.9	59.6	
Neck			
- Shear (kN)	0.5	0.57	
- Tension (kN)	2.81	2.01	
- Extension (Nm)	39.1	34.2	
Chest			
- Acceleration (g for 3ms)	60.3	40.5	
- Compression (mm)	53.5	45.4	
- Viscous Criterion (m/s)	0.62	0.26	
Abdomen			
- Force (kN)			
Pelvis			
- Force (kN)			
Upper Legs Force (kN)			
- Left	1.43	1.81	
- Right	1.6	5.1	
Knee Displacement (kN)			
- Left	0.68	1.33	
- Right	0.99	4.47	
Lower Legs Force (kN)			
- Left	3.26	4.38	
- Right	5.32	3.68	
Index (Upper | Lower)			
- Left	0.47 | 1.21	0.56 | 0.55	
- Right	0.97 | 0.89	0.48 | 0.59	

Bonus points (maximum 5)
Pole Test: Not eligible due to lack of head-side airbags
Seat Belt Reminders: None

Modifiers for offset test scores

Head	Steer col upward movement	1 pt deduction
Chest		No deduction
Upper leg	Variable & Conc. Loading	2 pt deduct. L & R
Lower leg		No deduction
Foot score	Pedal rearward, Footwell rupture	3.04 pts, 1 pt deduction
Structure	Note: Steering column & pedal movements are	measured relative to the driver's seat.

Modifiers for side impact test scores

Head	Default score for all
Chest	
Upper leg	
Lower leg	
Foot score	
Structure	

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