

Crash Tests

New Car Safety

Holden Rodeo

03/2003 on 06/2007 - Dual Frontal

Overall Evaluation



Overall Score

Variant: 4x4 LX Crew Cab

21.4 out of 37

Engine: 3 Litre Turbo Diesel
Category: Utility

High risk of life-threatening chest injury

Model History and Safety Features

The tested model of Holden Rodeo 4x4 was introduced in Australia during 2003.

Dual front airbags are standard equipment on the LX Crew Cab. ABS brakes are optional.

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

The Rodeo 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 2.000 pts, lower legs 0.400 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

Default 16 points awarded for side impact test.

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 Rodeo 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)



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

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: Zero points

Seat Belt Reminders: None fitted - zero points

Modifiers for offset test scores

Head	Steering column upward movement	1 pt deduction
Chest		No deduction
Upper leg	Variabel & concentrated loading	2 pt deduction L & R
Lower leg		No deduction
Foot score	Pedal rearward movement	Score 3.04 points
Structure	Footwell rupture	1 pt deduction

Modifiers for side impact test scores

Head	Not assessed
Chest	Not assessed
Upper leg	Not assessed
Lower leg	Not assessed
Foot score	Not assessed
Structure	Not assessed



Version 1, Published on: 13/06/2007
Published by
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