Crash Tests

New Car Safety

HOLDEN RODEO 4x4

2004 on **Dual front airbags**

Occupant Protection



Occupant Protection Score 21.40* out of 37

* High risk of life-threatening chest injury

Variant: LX CREW CAB

Eng: 3 litre Turbo Diesel, 5 speed manual Category: UTILITY Kerb weight: 1890 kg

Vehicle built: 7/05

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.

OCCUPANT PROTECTION: 3 Stars*

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



Offset crash test at 64km/h

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.

INJURY MEASUREMENTS

Refer to the informal sheet "How the tendone"		Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
		Driver	Passn	Driver
Head HIC		819	656	
Acceleration (g for 3ms)		77.9	59.6	Default
Neck - Shear (kN)		0.50	0.57	
Tension (kN)		2.81	2.01	
Extension (Nm)		39.1	34.2	
Chest Accln (g for 3ms)		60.300	40.500	scores awarded
Compression (mm)		53.50	45.40	awarueu
Viscous criterion (m/s)		0.62	0.26	
Abdomen - Force (kN)		-	-	
Pelvis - Force	(kN)	1	-	
Upper legs Force	Left	1.43	1.81	
(kN)	Right	1.60	5.10	
Knee displ (mm)	Left	0.68	1.33	
	Right	0.99	4.47	
Lower legs Force Left		3.26	4.38	
(kN)	Right	5.32	3.68	
Index (Upper/Low)	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 Seat belt reminders: Not fitted

Modifiers - offset test scores

Head Steer col upward Chest

Upper leg Variable & conc. loading

Lower leg

Foot score Pedal rearward No deduction 2 pt deduction L & R No deduction Score 3.04 points

1 pt deduction

Footwell rupture 1 pt deduction

PEDESTRIAN PROTECTION RATING (v4.1)

Child head impacts	zero	Upper leg impacts	zero
Adult head impacts	7.67	Lower leg impacts	zero
Total (out of 36)	7.67	* ~ ~	\Rightarrow



NEW CAR ASSESSMENT PROGRAM

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