Crash Tests

New Car Safety

Suzuki Grand Vitara

01/2001 on 06/2005 - Dual Frontal

Overall Evaluation



Overall Score
Variant: 5 Dr Wagon

22.94 out of 37
Engine: 2.7 Litre
Category: Medium SUV

The left hand drive European model was used for the tests conducted by EuroNCAP. Australian specifications may vary and therefore models sold in Australia might provide different levels of protection than those described on this page.

Model History and Safety Features

The tested model of Suzuki Grand Vitara was introduced in 2001.

Dual front airbags are standard equipment.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt.

Overall Evaluation: 3

The SUZUKI GRAND VITARA scored 8.089 out of 16 in the offset crash test. The passenger compartment was judged to be structurally unstable. There was a moderate risk of serious chest and leg injury for the driver.

The vehicle scored 14.85 out of 16 in the side impact crash test. There was a slight risk of serious chest injury for the driver.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 0.61pts, upper legs 2pts, lower legs 1.48pts.

The passenger compartment was moderately deformed in the offset crash test. There was significant distortion of the footwell and firewall. The brake pedal moved rearwards by 163mm and upwards 97mm. The steering wheel hub moved rearwards 50mm, upwards 72mm and sideways 23mm. The front ("A") pillar moved 71mm rearwards. The roof buckled upwards above the driver. The driver's door buckled and was beginning to tear apart. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door and rear door on the driver's side.

The airbag cushioned the head of the driver and contact was stable. Brackets behind the dash and steering column components were potential sources of knee injury for the driver. The passenger's head was cushioned by the airbag. There were potential sources of knee injury for the passenger.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 2.85pts, abdomen 4pts, pelvis 4pts.

This test simulates a fairly 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 Grand Vitara. Such vehicles can be expected to perform relatively well in this particular side impact test. There was, however, a slight risk of serious chest injury for the driver.

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, giving a maximum possible overall score of 34 points.

Pedestrian rating (v3)

(0 stars)

0 points.

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v3)		Side Impact Crash Test aa 50km/h (v3)
	Driver	Passn	Driver
Head			
- HIC	368.1	366.3	127.8
- Acceleration (g for 3ms)	48.62	52.78	51.53
Neck			
- Shear (kN)	1.059	0.71	
- Tension (kN)	1.644	1.66	
- Extension (Nm)	7.01	12.46	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	38.74	34.03	27.75
- Viscous Criterion (m/s)	0.22	0.17	0.23
Abdomen			
- Force (kN)			0.48
Pelvis			
- Force (kN)			1.79
Upper Legs Force (kN)			
- Left	0.781	1.72	
- Right	0.9884	1.01	
Knee Displacement (kN)			
- Left	1.51	4.35	
- Right	0.04	0.47	
Lower Legs Force (kN)			
- Left	1.51	2.41	
- Right	1.9	1.81	
Index (Upper | Lower)			
- Left	0.45 | 0.25	0.32 | 0.35	
- Right	0.45 | 0.22	0.28 | 0.26	

Bonus points (maximum 5)
Pole Test: Zero points
Seat Belt Reminders: None fitted - zero points

Modifiers for offset test scores

Head		No deduction
Chest		No deduction
Upper leg	Variable & conc. loading	2 point penalty
Lower leg	Upward pedal movement	1 point penalty
Foot score	Rearward pedal movement	Score 1.48pts
Structure		No 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

ANCAP Crash testing for safety

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