

Crash Tests

New Car Safety

Suzuki Grand Vitara

06/2006 on 01/0001 - Frontal+Side+Head

Overall Evaluation



Overall Score

Variant: 5 Dr Wagon

28.87 out of 37

Engine: 1.9 Litre diesel
Category: Medium SUV

Safety equipment, as tested, not standard on all variants.

The diesel left-hand-drive European model with curtains was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

The tested model of Suzuki Grand Vitara was introduced in Australia during 2006.

Dual front airbags are standard equipment. Antilock brakes (ABS) with electronic brake distribution (EBD) are also standard. Side airbags and head-protecting side curtains are only available on the New Zealand LTD variant and Australian Prestige variant. Electronic stability control (ESC) is standard on the Prestige. An intelligent seat belt reminder is fitted to the driver seat in Europe but the Australian model does not have this feature.

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. Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

Overall Evaluation: 4

The Suzuki Grand Vitara scored 10.87 out of 16 in the offset crash test. The passenger compartment held its shape reasonably well except in the footwell area. Protection from serious leg injury was marginal for the driver and passenger.

The vehicle scored 16 out of 16 in the side impact crash test and a further two points in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 3 pts, chest 3.03 pts, upper legs 2 pts, lower legs 2.84 pts.

The footwell deformed excessively and panels separated. The brake pedal moved rearwards by 59mm and downwards 2mm. The steering wheel hub moved rearwards 25mm, upwards 37mm and sideways 2mm. The front ("A") pillar moved 37mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to pen the driver's door.

The airbag cushioned the head of the driver and contact was stable but the airbag bottomed out. Steering column and dash components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag. The glove box and dash were a potential knee hazard for the passenger.

Side Impact Crash Test

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

The European vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and score four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

Pedestrian rating (v4.1)



Child head impacts: 7.34.
Adult head impacts: 5.52.
Upper leg impacts: zero.
Lower leg impacts: 6.
Total (out of 36): 18.86.

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	369	421	45
- Acceleration (g for 3ms)	50.6	56.5	23.3
Neck			
- Shear (kN)	0.59	0.31	
- Tension (kN)	1.24	1.04	
- Extension (Nm)	17.1	16.1	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	28.81	24.14	12.99
- Viscous Criterion (m/s)	0.14	0.1	0.06
Abdomen			
- Force (kN)			0.31
Pelvis			
- Force (kN)			0.68
Upper Legs Force (kN)			
- Left	0.08	0.23	
- Right	0.1	1.43	
Knee Displacement (kN)			
- Left	0	0	
- Right	0	0	
Lower Legs Force (kN)			
- Left	1.08	1.66	
- Right	1.51	1.38	
Index (Upper Lower)			
- Left	0.44 0.66	0.4 0.39	
- Right	0.3 0.54	0.43 0.16	

Bonus points (maximum 5)

Pole Test: 2 points for LTD/Prestige variants.
Seat Belt Reminders: None fitted - zero points

Modifiers for offset test scores

Head	airbag bottomed out	1 pt deduction
Chest		no deduction
Upper leg	variable & Conc. loading	2 pt deduction L & R for driver & passenger.
Lower leg		no deduction
Foot score	Footwell rupture	3 points
Structure		

Modifiers for side impact test scores

Head	
Chest	no deduction
Upper leg	
Lower leg	
Foot score	
Structure	



Version 1, Published on: 22/11/2007
Published by
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