

# Crash Tests

## New Car Safety

### Lexus GS 300

07/2005 on 01/0001 - Frontal+Side+Head+Knee

#### Overall Evaluation



**Overall Score**  
Variant: 4 Dr Sedan

**34.81 out of 37**  
Engine: 3 Litre V6  
Category: Luxury

Vehicles tested after 1 January 2008 will require Electronic Stability Control in order to achieve a 5 star rating. This vehicle was tested prior to this date and may or may not meet this new requirement.

The European model 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 Lexus GS300 was introduced in Australia during 2005.

Dual front airbags, side airbags, head-protecting side curtains and knee airbags for driver and front passenger are standard on the tested vehicle. ABS/EBD brakes and electronic stability control are also standard. Advanced seat belt reminders are fitted to both front seats.

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 seat belt.

#### Overall Evaluation: 5

The GS300 scored 14.81 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of chest and lower leg injury for the driver.

The vehicle scored 16 out of 16 in the side impact crash test. A further 2 points were scored in the optional pole test.

#### Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 3.81pts, upper legs 4pts, lower legs 3.01pts.

The passenger compartment held its shape well in the offset crash test. The pedal moved rearwards by 94 mm. The steering wheel hub moved forwards 24mm, upwards 11 mm and sideways 12mm. The front ("A") pillar moved 10 mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

Airbags cushioned the head of the driver and front passenger and each contact was stable.

#### Side Impact Crash Test

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

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored 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)



Total (out of 36)	17.66
Child head impacts	6.92
Adult head impacts	4.44
Upper leg impacts	1.80
Lower leg impacts	4.50

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 at 50km/h (v4.1) Driver
	Driver	Passn	
<b>Head</b>			
- HIC	233	120	28
- Acceleration (g for 3ms)	40.3	28.2	17.8
<b>Neck</b>			
- Shear (kN)	0.01	0.01	
- Tension (kN)	0.46	0.28	
- Extension (Nm)	21.7	19.3	
<b>Chest</b>			
- Acceleration (g for 3ms)			
- Compression (mm)	23.39	15.76	18.63
- Viscous Criterion (m/s)	0.07	0.06	0.13
<b>Abdomen</b>			
- Force (kN)			0.54
<b>Pelvis</b>			
- Force (kN)			1.44
<b>Upper Legs Force (kN)</b>			
- Left	1.58	1.46	
- Right	1.86	1.44	
<b>Knee Displacement (kN)</b>			
- Left	1.3	2.2	
- Right	0.81	2.45	
<b>Lower Legs Force (kN)</b>			
- Left	2.56	2.55	
- Right	2.53	3.48	
<b>Index (Upper   Lower)</b>			
- Left	0.41   0.34	0.25   0.32	
- Right	0.4   0.48	0.59   0.36	

#### Bonus points (maximum 5)

Pole Test: 2 points  
Seat Belt Reminders: Fitted to both front seats - 2 points

#### Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	Score 4 points
Structure	No deduction

#### Modifiers for side impact test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	No deduction
Structure	No deduction



Version 1, Published on: 20/12/2007  
Published by  
New Car Assessment Program  
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