

Crash Tests

New Car Safety

BMW X5

03/2003 on 02/2007 - Frontal+Side+Head

Overall Evaluation



Overall Score
Variant: 4 Dr Wagon

32.66 out of 37
Engine: 3 Litre V6
Category: Large SUV

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 left-hand-drive European model was tested by EuroNCAP. 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 BMW X5, with advanced seat belt reminders, was introduced in 2003.

Dual front airbags, side airbags and head-protecting inflatable tubes are standard equipment. ABS brakes and electronic stability control are also standard.

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. Pretensioners 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 BMW X5 scored 12.66 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious chest and leg injury was marginal 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. The advanced seat belt reminder earned the vehicle 2 extra points and this gave a 5 star rating (minimum 32.5 pts).

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 2.66pts, upper legs 2pts, lower legs 4pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 56mm and upwards 24mm. The steering wheel hub moved rearwards 12mm, upwards 24mm and sideways 3mm. The front ("A") pillar moved 22mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. Dash components were a potential source of injury for the driver and passenger knees.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 4pts, 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 X5. Such vehicles can be expected to perform relatively well in this particular side impact test.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags (tubes) 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 (v3.1)



1.69 points out of 36.
Child head impacts 0.72pts;
Adult head impacts 0.97pts;
Upper leg nil pts;
Lower leg impacts nil pts.

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v3.1)		Side Impact Crash Test at 50km/h (v3.1) Driver
	Driver	Passn	
Head			
- HIC	314	213	21
- Acceleration (g for 3ms)	45.4	39.1	14.7
Neck			
- Shear (kN)	0.22	0.25	
- Tension (kN)	0.48	0.36	
- Extension (Nm)	12.81	11.54	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	31.4	27.59	8.53
- Viscous Criterion (m/s)	0.15	0.1	0.02
Abdomen			
- Force (kN)			0.28
Pelvis			
- Force (kN)			0.41
Upper Legs Force (kN)			
- Left	0.24	1.09	
- Right	1.28	0.15	
Knee Displacement (kN)			
- Left	0.27	5.25	
- Right	0.35	0.48	
Lower Legs Force (kN)			
- Left	1.09	1.55	
- Right	1.63	1.61	
Index (Upper Lower)			
- Left	0.34 0.22	0.2 0.31	
- Right	0.29 0.22	0.37 0.17	

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	Variable & conc. loading
Lower leg	Drv 2 pt deduction L & R
Foot score	No deduction
Structure	Score 4 points
	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



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