

Crash Tests

New Car Safety

Volkswagen Passat

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

Overall Evaluation



Overall Score

Variant: 1.9 litre diesel sedan and wagon

33.99 out of 37

Engine: 1.9 Litre Diesel

Category: Luxury

The diesel left-hand-drive European Passat sedan 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. Volkswagen provided evidence to ANCAP that the Passat wagon with diesel engine can be expected to provide comparable protection to the sedan tested by Euro NCAP.

Model History and Safety Features

The Passat was introduced in Australia during 2006. This ANCAP 5-star rating applies the diesel sedan and wagon variants.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS) with electronic brakeforce distribution (EBD), emergency brake assist, and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.

Pretensioners are fitted to all outboard 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 Passat scored 13.99 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg injury for the driver and a slight risk of serious chest and leg injury for the passenger.

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 4 pts, chest 3.97 pts, upper legs 3 pts, lower legs 3.02 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 22 mm and downwards 5mm. The steering wheel hub moved forwards 31mm, downwards 4mm and sideways 5 mm. The front ("A") pillar moved 6 mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door.

The airbag cushioned the head of the driver and contact was stable. Steering column components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag.

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 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)



Child head impacts	7.460
Adult head impacts	3.060
Upper leg impacts	0.000
Lower leg impacts	6.000
Total (out of 36)	16.520

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
	Driver	Passn	
Head			
- HIC	333	265	45
- Acceleration (g for 3ms)	42.4	38.9	20.2
Neck			
- Shear (kN)	0.34	0.57	
- Tension (kN)	1	0.61	
- Extension (Nm)	18.3	20.2	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	20.29	22.2	19.6
- Viscous Criterion (m/s)			0.28
Abdomen			
- Force (kN)			0.78
Pelvis			
- Force (kN)			0.01
Upper Legs Force (kN)			
- Left	0.35	0.2	
- Right	0.81	0.42	
Knee Displacement (kN)			
- Left	0	0	
- Right	0	0	
Lower Legs Force (kN)			
- Left	2.15	2.14	
- Right	3.15	1.59	
Index (Upper Lower)			
- Left	0.54 0.27	0.52 0.27	
- Right	0.62 0.58	0.39 0.22	

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 contact
Lower leg	1 pt deduction L & R
Foot score	No deduction
Structure	Score 4 points

Modifiers for side impact test scores

Head	
Chest	No deduction
Upper leg	
Lower leg	
Foot score	
Structure	



Version 1, Published on: 26/02/2010
Published by
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