

Crash Tests

New Car Safety

Kia Soul

03/2009 on 05/2010 - Frontal+Side+Head

Overall Evaluation



Overall Score
Variant: EX LHD

29.11 out of 37
Engine: 1.6 litre
Category: Small Car

Australian Model is 4 stars

: The left-hand-drive 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 Kia Soul was introduced in Australia during 2009. This rating applies to the base-model Soul in Australia. A separate ANCAP rating (5 stars) applies to the New Zealand model, which has more safety features. Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS) with electronic brakeforce distribution (EBD) and emergency brake assist are also standard. Electronic stability control (ESC) is only available on Soul Squared and Sol Cubed and not the base model. An intelligent seat belt reminder is fitted to the driver seat. 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 (lap) seat belt.

Overall Evaluation: 4

4 Stars. The Kia Soul scored 13.11 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the driver and passenger.

The vehicle scored 15 out of 16 in the side impact crash test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.20 pts, upper legs 2 pts, lower legs 3.91 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 63 mm and upwards 21 mm. The steering wheel hub moved 35mm forward, 64mm downward and 3 mm sideways. The front ("A") pillar moved 12 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with high manual 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. 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.

A rear door partially opened during the side impact test, resulting in a 1 point deduction.

In Europe the vehicle was eligible for an optional pole impact test and this was successfully conducted, with 2 points scored. However ANCAP only counts the pole test score for potential 5 star ratings and the Australian Soul is not eligible.

Pedestrian rating (v4.2)



The front edge of the bonnet offered poor protection to pedestrians' legs. In most areas likely to be hit by a pedestrian's head, the bonnet also provided poor protection. Only the bumper offered predominantly good protection against injury.

Child head impacts 5
Adult head impacts 3
Upper leg impacts Zero
Lower leg impacts 5.89
Total (out of 36) 13.89

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.2)		Side Impact Crash Test aa 50km/h (v4.2) Driver
	Driver	Passn	
Head			
- HIC	361	269	55
- Acceleration (g for 3ms)	43.3	44.1	26.2
Neck			
- Shear (kN)	0.32	0.6	
- Tension (kN)	1.39	1.17	
- Extension (Nm)	19.3	17.4	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	27.59	22.93	19.12
- Viscous Criterion (m/s)	0.1	0.06	0.11
Abdomen			
- Force (kN)			0.73
Pelvis			
- Force (kN)			1.58
Upper Legs Force (kN)			
- Left	0.08	2.1	
- Right	0.34	0.7	
Knee Displacement (kN)			
- Left	0	0.9	
- Right	0	0	
Lower Legs Force (kN)			
- Left	1.61	2.14	
- Right	1	1.45	
Index (Upper Lower)			
- Left	0.41 0.29	0.24 0.24	
- Right	0.27 0.21	0.22 0.28	

Bonus points (maximum 5)

Pole Test: Australian Model not eligible
Seat Belt Reminders: 1

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & Conc Loading 2 pt deduction L & R for D & P
Lower leg	No deduction
Foot score	4 points
Structure	

Modifiers for side impact test scores

Head	
Chest	No deduction
Upper leg	
Lower leg	
Foot score	
Structure	Door opened during crash 1 pt deduction



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New Car Assessment Program
PO Box 1555
Canberra ACT Australia 2601