Crash Tests

New Car Safety

Kia Cerato

03/2009 on 04/2009 - Frontal+Side+Head

Overall Evaluation



Overall Score Variant: S Sedan 26.63 out of 37 Engine: 2 litre Category: Small Car

Model History and Safety Features

The tested model of Kia Cerato was introduced in Australia early in 2009. Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) with Emergency Brake Assist is also standard. Electronic Stability Control (ESC) is standard in New Zealand and on the SLi variant in Australia. ESC is optional on the S variant. An advanced 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 Cerato scored 9.63 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a moderate risk of serious leg injury was for the driver.

The vehicle scored 16 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 3.55 pts, upper legs 0.39 pts, lower legs 1.69 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 124 and upwards 20 mm. The steering wheel hub moved 56 mm rearward, 1 mm upward and 13 mm sideways. The front ("A") pillar moved 42 mm rearwards. All doors remained closed during the crash. After the crash the driver door could be opened with high manual effort.

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. A production change introduced after the crash test has improved knee protection is this area but some concerns remain. 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.

Although side curtain are fitted the vehicle was not eligible for a Pole Impact Test since it was not within reach of a 5 star rating. This test can earn eligible vehicles an extra two points.

Pedestrian rating (v4.1)



Child head impacts 8
Adult head impacts 2
Upper leg impacts Zero
Lower leg impacts Zero
Total (out of 36) 10

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet Offset Crash Test at 64km/h Side Impact			
'How the tests are done'	(v4.1)		Crash Test aa
now the tests are done	(44.1)		50km/h (v4.1)
	Driver	Passn	Driver
Head	Dilvei	1 03311	Dilvei
- HIC	F4	0.7	75
	51 415	37	75 28.9
- Acceleration (g for 3ms)	415	228	28.9
Neck	0.07	0.50	
- Shear (kN)	0.37	0.58	
- Tension (kN)	1.52	0.93	
- Extension (Nm)	10	19.2	
Chest			
- Acceleration (g for 3ms)	46.6	32.9	
- Compression (mm)	25.16	24.8	20.5
- Viscous Criterion (m/s)	0.06	0.08	0.12
Abdomen			
- Force (kN)			0.816
Pelvis			
- Force (kN)			2.25
Upper Legs Force (kN)			
- Left	0.67	0.33	
- Right	5.92	2.44	
Knee Displacement (kN)			
- Left	4.02	0.53	
- Right	5.37	1.74	
Lower Legs Force (kN)			
- Left	2.74	1.98	
- Right	1.95	2.3	
Index (Upper Lower)			
- Left	0.25 0.31	0.34 0.33	
- Right	0.49 0.92	0.36 0.25	

Bonus points (maximum 5)

Pole Test: Not eligible Seat Belt Reminders: 1

Modifiers for offset test scores

Head Chest

Upper leg Variable & Conc Loading

Lower leg

Foot score Structure

Pedal rear movement 0.5 pt deduction with improved design of No deduction No deduction 2 pt deduction R 1 pt deduct L No deduction 3.02 pts

steering column but star rating unchanged.

Modifiers for side impact test scores

Head
Chest
Upper leg
Lower leg
Foot score
Structure

No deduction



Version 1, Published on: 11/06/2009 Published by New Car Assessment Program PO Box 1555 Canberra ACT Australia 2601