

Crash Test Results

New Car Safety

KIA RONDO/CARENS (LHD) WITH SIDE CURTAIN AIRBAGS

2008 on Front+side+head airbags*



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck 4 pts, chest 2.65 pts, upper legs 1.56 pts, lower legs 1 pt.

The passenger compartment held its shape well in the offset crash test. However, the clutch pedal moved rearwards by 175 mm and upwards 43 mm. The steering wheel hub moved 39 mm rearward, 24mm rearward and 18 mm sideways. The front ("A") pillar moved 47 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. Dash/fascia 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 (v4.1)

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 PROTECTION: 1 Star

The leading edge of the bonnet scored no points for the protection offered to pedestrian legs, as did the bonnet for the protection offered to adult heads. However, the bumper performed better, scoring maximum points.



Occupant Protection Score 27.21 out of 37

* Safety equipment, as tested, not standard on all variants

Variant: EX-L equivalent Eng: 2 litre, manual

Kerb weight: 1520 kg Category: Medium car/MPV

Vehicles built: 2007

Important note: 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

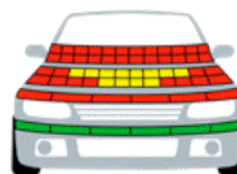
The tested model of Kia Rondo was introduced in Australia during 2008. This model is marketed as the Kia Carens in New Zealand and Europe.

Dual front airbags, antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are standard. Side airbags and head-protecting side curtains are standard on all New Zealand variants and the Australian EX-L variants. They are optional on the other Australian variants. An intelligent seat belt reminder is fitted 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. Three point seat belts are fitted to all seats.

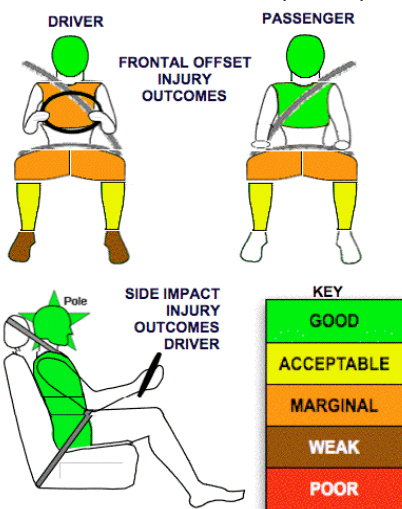
OCCUPANT PROTECTION: 4 Stars

The Rondo scored 9.21 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. Foot protection was weak due to clutch pedal movement. The vehicle scored 15 out of 16 in the side impact crash test. All injury measurements were good but the driver door opened during the crash. A further two points were awarded in the optional pole test.

PEDESTRIAN PROTECTION		
 ANCAP Rated ★ ★ ★ ★ ★ Tested by Euro NCAP v4.1	Child head impacts	3.21
	Adult head impacts	Zero
	Upper leg impacts	Zero
	Lower leg impacts	6.00
	Total (out of 36)	9.21



■ GOOD
■ ADEQUATE
■ MARGINAL



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TECHNICAL DATA - KIA RONDO/CARENS WITH CURTAINS - 2008 on

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passenger	Driver
Head HIC	460	43	80
Acceleration (g for 3ms)	49.6	315.0	31.3
Neck - Shear (kN)	0.51	0.54	-
Tension (kN)	1.21	0.90	-
Extension (Nm)	8.8	10.1	-
Chest Accln (g for 3ms)			-
Compression (mm)	31.47	20.52	18.04
Viscous criterion (m/s)	0.10	0.07	0.12
Abdomen - Force (kN)	-	-	0.950
Pelvis - Force (kN)	-	-	0.910
Upper legs Force			
Left (kN)	4.38	3.79	
Right (kN)	0.31	0.94	
Knee displ (mm)			
Left	5.40	3.50	
Right	0.50	3.10	
Lower legs Force			
Left (kN)	1.42	3.04	
Right (kN)	1.95	2.16	
Index (Upper/Low)			
Left	0.30 /0.47	0.32 /0.23	
Right	0.45 /0.44	0.26/0.31	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 1 (see table below for details)

Modifiers - deductions from offset test scores

Head No deduction
 Chest No deduction
 Upper leg Variable & conc. loading 2 pt deduction Left & Right
 for driver and passenger

Lower leg No deduction
 Foot score Clutch movement Score 1 points

Modifiers - deductions from side impact test scores

Chest No deduction
 Door opened 1 pt deduction

Safety features

These specifications are subject to change. Please check with manufacturer for the latest specifications.



Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/X
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	O √ (S NZ)	3 point centre rear seat belt	S
Side airbags, front seats - head protection	O √ (S NZ)	Active head restraints - front seats	V (S NZ)
Side airbags, rear seats - head protection	O √ (S NZ)	Intelligent seat belt reminder - driver	S
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	X
Seat belt pretensioners (Front/Rear outboard)	S/X	Rear seat belt status indicator	X

Key: √ = Fitted to vehicle that was crash tested (where not standard)

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V = not available on base variant but standard or optional on higher variants

X = not available on any variant

ESC required by ANCAP for 5 star rating from 2008