

Crash Tests

New Car Safety

Renault Koleos

03/2008 on 01/0001 - Frontal+Side+Head

Overall Evaluation



Overall Score

Variant: Dynamique LHD

33.08 out of 37

Engine: 2 litre diesel

Category: Medium SUV

The diesel 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 Renault Koleos was introduced in Australia during 2008. Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats. 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: 5

5 Stars. The Koleos scored 13.12 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest and leg injury for the driver. Passenger leg protection was marginal. The vehicle scored 15.96 out of 16 in the side impact crash test. There was a slight risk of serious chest and abdomen injury for the driver. A further two points were earned in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.31 pts, upper legs 2 pts, lower legs 3.81 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 52 mm and downwards 10mm. The steering wheel hub moved 15mm forward, 10 mm upward and 2 mm sideways. The front ("A") pillar moved 16 mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver 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. The glove box and dash were a potential source of injury for the passenger's knees.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4 pts, chest 3.96 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 (v4.2)



The bonnet leading edge offered only a poor level of leg protection. The bonnet top was also rated as predominantly poor for the protection offered to a both a child and adult's head.

Child head impacts	4.16
Adult head impacts	4.35
Upper leg impacts	Zero
Lower leg impacts	5.50
Total (out of 36)	14.01

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	238	185	13
- Acceleration (g for 3ms)	40.5	32.3	14.5
Neck			
- Shear (kN)	0.3	0.58	
- Tension (kN)	1.32	0.84	
- Extension (Nm)	4.9	8.3	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	25.3	26.8	7
- Viscous Criterion (m/s)	0.09	0.1	0.02
Abdomen			
- Force (kN)			0.44
Pelvis			
- Force (kN)			1.13
Upper Legs Force (kN)			
- Left	0.91	2.59	
- Right	0.15	0.22	
Knee Displacement (kN)			
- Left	0.2	4.5	
- Right	0.2	0.7	
Lower Legs Force (kN)			
- Left	1.92	1.59	
- Right	2.29	1.19	
Index (Upper Lower)			
- Left	0.39 0.28	0.27 0.21	
- Right	0.27 0.29	0.14 0.13	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & Conc. Loads 0.5 pt deduct D L&R, 2 pt deduct P L&R
Lower leg	No deduction
Foot score	No deduction
Structure	4 pts

Modifiers for side impact test scores

Head	
Chest	Backplate Load
Upper leg	0.04 pt deduction
Lower leg	
Foot score	
Structure	



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