

# Crash Tests

## New Car Safety

### Renault Megane

12/2003 on 06/2008 - Frontal+Side+Head

#### Overall Evaluation



**Overall Score**  
Variant: 5 Dr Hatch

**33.1 out of 37**  
Engine: 1.6 Litre  
Category: Small Car

Vehicles tested after 1 January 2008 will require Electronic Stability Control in order to achieve a 5 star rating. This vehicle was tested prior to this date and may or may not meet this new requirement.

The left-hand-drive European model was tested by EuroNCAP. 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 Megane was introduced in Australia late in 2003.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. ABS brake, advanced seat belt reminder and automatic headlights are also standard. The 3 door hatch variant (not tested) has anti-submerging airbags in the 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 seat belt.

#### Overall Evaluation: 5

The RENAULT MEGANE scored 14.1 out of 16 in the offset crash test. The passenger compartment was extremely stable. There was a slight risk of serious chest and leg injury for the driver.

The vehicle scored 16 out of 16 in the side impact crash test. A further 2 points were scored in the optional pole test and one point was awarded for the driver's seat belt reminder. With these extra points the Megane became the first small car to earn 5 stars from Euro NCAP.

#### Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 3.32pts, upper legs 3pts, lower legs 3.78pts.

The passenger compartment was held its shape well in the offset crash test. The clutch pedal moved rearwards by 40mm and upwards 22mm. The steering wheel hub moved rearwards 17mm, upwards 7mm and sideways 23mm. The front ("A") pillar moved 29mm rearwards. The driver's doorway shortened by 20mm. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. Vehicle 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 4pts, chest 4pts, abdomen 4pts, pelvis 4pts.

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)



11 points out of 36 (%).  
Child head impacts 0pts;  
Adult head impacts 7pts;  
Upper leg 4pts and lower leg impacts 0pts.

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)		Side Impact Crash Test at 50km/h (v4) Driver
	Driver	Passn	
<b>Head</b>			
- HIC	306.7	342	41.47
- Acceleration (g for 3ms)	48.34	43.04	19.44
<b>Neck</b>			
- Shear (kN)	0.44	0.43	
- Tension (kN)	1.14	1.09	
- Extension (Nm)	9.69	9.93	
<b>Chest</b>			
- Acceleration (g for 3ms)			
- Compression (mm)	26.77	26.56	17.75
- Viscous Criterion (m/s)	0.13	0.18	0.1
<b>Abdomen</b>			
- Force (kN)			0.62
<b>Pelvis</b>			
- Force (kN)			1.9
<b>Upper Legs Force (kN)</b>			
- Left	0.74	1.21	
- Right	1.49	0.38	
<b>Knee Displacement (kN)</b>			
- Left	0.05	1.68	
- Right	0.01	0.01	
<b>Lower Legs Force (kN)</b>			
- Left	1.7	1.93	
- Right	1.71	2.12	
<b>Index (Upper   Lower)</b>			
- Left	0.23   0.34	0.34   0.19	
- Right	0.4   0.45	0.35   0.28	

#### Bonus points (maximum 5)

Pole Test: 2 points  
Seat Belt Reminders: Fitted to driver seat only - 1 point

#### Modifiers for offset test scores

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

#### Modifiers for side impact test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	No deduction
Structure	No deduction



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