

Crash Tests

New Car Safety

Toyota Corolla

03/2007 on 10/2010 - Dual Frontal

Overall Evaluation



Overall Score

Variant: Ascent 5 dr Hatch

28.85 out of 37

Engine: 1.8 litre manual

Category: Small Car

Model History and Safety Features

The tested model of Toyota Corolla Ascent was introduced in Australia during 2007. Dual front airbags are standard equipment. Antilock brakes (ABS) with electronic brake distribution (EBD) are also standard. Side airbags, a driver knee airbag and head-protecting side curtains are optional on the Ascent and Levin SX variants and standard on the other variants in Australia. Side airbags are standard on all sedans and hatches in New Zealand but are not available for the wagon. Side curtains and knee airbags are standard on GLX sedans and hatches in New Zealand. Intelligent seat belt reminders are fitted to both front seats. Electronic stability control is not available.

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. Pre-tensioners 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 of sedans and hatches. This provides better protection than the two point (lap) seat belt fitted to the New Zealand wagon.

Overall Evaluation: 4

4 stars. The Corolla Ascent scored 12.01 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 there was a slight risk of serious chest injury for the driver and passenger. The vehicle scored 14.84 out of 16 in the side impact crash test. There was a slight risk of serious chest injury for the driver.

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 2.70 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 55 mm and upwards 12 mm. The steering wheel hub moved 41mm forward, 33mm downward and 1 mm sideways. The front ("A") pillar moved 15 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. Steering column 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 4 pts, chest 2.84 pts, abdomen 4 pts, pelvis 4 pts.

The New Zealand variants with standard side airbags can be expected to provide better protection than the tested vehicle, which had no side airbags.

The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points. A separate ANCAP rating is available for a Corolla hatch with the full package of airbags.

Pedestrian rating (v4.1)



Child head impacts	6.92
Adult head impacts	8
Upper leg impacts	Zero
Lower leg impacts	5.81
Total (out of 36)	20.73

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1) Driver
	Driver	Passn	
Head			
- HIC	212	257	61
- Acceleration (g for 3ms)	35.7	41.6	40.2
Neck			
- Shear (kN)	0.36	0.56	
- Tension (kN)	1.25	1.16	
- Extension (Nm)	15.4	7.2	
Chest			
- Acceleration (g for 3ms)	37.4	35.8	
- Compression (mm)	26	26.81	27.8
- Viscous Criterion (m/s)	0.09	0.1	0.22
Abdomen			
- Force (kN)			0.767
Pelvis			
- Force (kN)			1.53
Upper Legs Force (kN)			
- Left	0.61	0.39	
- Right	1.44	1.27	
Knee Displacement (kN)			
- Left	1.18	0.33	
- Right	0.04	1.12	
Lower Legs Force (kN)			
- Left	3.95	1.51	
- Right	1.44	2.2	
Index (Upper Lower)			
- Left	0.34 0.5	0.24 0.19	
- Right	0.29 0.18	0.32 0.31	

Bonus points (maximum 5)

Pole Test: Not eligible - no head protecting side airbags

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & conc. loading 2 pt deduction R, 1 pt deduction L
Lower leg	No deduction
Foot score	Score 4 pts
Structure	Steering column and pedal movements are measured relative to the driver's seat.

Modifiers for side impact test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	Score 4 pts
Structure	measured relative to the driver's seat.



Version 1, Published on: 22/01/2008
Published by
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