

Crash Tests

New Car Safety

Toyota Hilux

05/2005 on 01/0001 - Dual Frontal

Overall Evaluation



Overall Score

27.31 out of 37

Variant: 4x2 Workmate Single cab/chassis

Engine: 2.7 L Petrol

Category: Utility

Model History and Safety Features

The tested model of Toyota Hilux 4x2 was introduced in Australia during 2005.

Dual front airbags are standard equipment. ABS brakes are not available for the Workmate but are available on other variants.

Pre-tensioners are fitted to the driver and outboard passenger seat belts to reduce slack in the event of a crash. A two point seat belt is fitted to the centre front seat. This provides inferior protection compared with a three point seat belt.

Overall Evaluation: 4

The Toyota Hilux 4x2 scored 11.31 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. There was a moderate risk of serious chest injury for the passenger and a slight risk for the driver.

The vehicle was awarded a default score of 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 1.93 pts, upper legs 2 pts, lower legs 3.38 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 110 mm and downwards 10mm. The steering wheel hub moved rearwards 6 mm, upwards 8 mm and sideways 14 mm. The front ("A") pillar moved 5 mm rearwards. All doors remained closed during the crash. After the crash both doors opened with normal 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 and contact was stable.

Side Impact Crash Test

Default 16 points awarded for side impact test.

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. It is based on a regulation test but the regulation does not apply to vehicles with a high seat height like the Hilux. Experience shows that such vehicles can be expected to perform well in this test so ANCAP has decided to award full score for these vehicles instead of conducting a crash test.

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.

Pedestrian rating (v4.1)

(0 stars)

A pedestrian test was not conducted on the Toyota Hilux 4x2

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	Passn	Driver	
Head				
- HIC	517	478		
- Acceleration (g for 3ms)	58	54.7		
Neck				
- Shear (kN)	0.55	0.79		
- Tension (kN)	1.49	1.96		
- Extension (Nm)	11.5	22.7		
Chest				
- Acceleration (g for 3ms)	43.3	32.8		
- Compression (mm)	26	36.5		
- Viscous Criterion (m/s)	0.11	0.26		
Abdomen				
- Force (kN)				
Pelvis				
- Force (kN)				
Upper Legs Force (kN)				
- Left	0.38	0.17		
- Right	0.25	0.19		
Knee Displacement (kN)				
- Left	1.3	1.17		
- Right	0.58	2.9		
Lower Legs Force (kN)				
- Left	1.5	1.42		
- Right	2.74	1.48		
Index (Upper Lower)				
- Left	0.28 0.48	0.32 0.26		
- Right	0.54 0.4	0.38 0.34		

Bonus points (maximum 5)

Pole Test: Zero points

Seat Belt Reminders: None fitted - zero points

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & concentrated loading 2 pt deduction L&R
Lower leg	No deduction
Foot score	Score 3.6 pts
Structure	No deduction

Modifiers for side impact test scores

Head	Not assessed
Chest	Not assessed
Upper leg	Not assessed
Lower leg	Not assessed
Foot score	Not assessed
Structure	Not assessed



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