Crash Tests

New Car Safety HYUNDAI ACCENT 2003 on Dual front airbags



Overall score 18.95 out of 37

* High risk of life-threatening chest injury
Variant: 3 DR HATCH Eng: 1.6 litre.
Kerb weight: 1110 kg Category: SMALL CAR
Vehicles built: 7/03 and 6/03

Model History and Safety Features

The Hyundai Accent was introduced in 2000. In 2003 dual airbags became standard equipment. ABS brakes are optional.

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

OVERALL EVALUATION : 3 Stars *

The Hyundai Accent scored 9.19 out of 16 in the offset crash test. The passenger compartment held its shape reasonably well in the offset crash test. Protection from serious leg and foot injury was marginal for the driver.

The vehicle scored 9.76 out of 16 in the side impact crash test. There was a high risk of serious chest injury for the driver.

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4pts, chest 3.47pts, upper legs 0.80pts, lower legs 0.92pts.

The passenger compartment held its shape reasonably well in the offset crash test. The front part of the driver's floor was pushed rearwards 164mm. The brake pedal moved rearwards by 177mm and downwards 33mm, relative to the driver's seat. The dash moved 131mm towards the driver. The steering wheel hub moved rearwards 66mm, downwards 31mm and sideways 45mm, relative to the driver's seat. The front ("A") pillar moved 62mm rearwards. The width of the driver's doorway shortened by 39mm. All doors remained closed during the crash. After the crash tools were required to open the driver's door.

The airbag cushioned the head of the driver and contact was stable. Steering column components and a metal box behind the dash were a potential sources 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 zero pts, abdomen 2.05pts, pelvis 3.71pts.

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.



Offset crash test at 64km/h

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h (v4.0)		Side Impact Crash Test at 50km/h (v4.0)
	Driver	Passn	Driver
Head HIC	354		110
Acceleration (g for 3ms)	47.4	39.7	41.6
Neck - Shear (kN)	0.35	0.45	-
Tension (kN)	1.45	1.14	-
Extension (Nm)	23.6	15.2	-
Chest Accln (g for 3ms)	38.4	32.8	-
Compression (mm)	25.7	23.9	42.4
Viscous criterion (m/s)	0.09	0.06	
Abdomen - Force (kN)	-	-	1.73
Pelvis - Force (kN)	-	-	3.22
Upper legs Force Left	6.7	0.45	
(kN) Righ	t 2.16	2.45	
Knee displ (mm) Left	0.34	1.05	
Righ	t 1.5	8.51	
Lower legs Force Left	1.51	1.56	
(kN) Righ	t 0.86	1.36	
Index (Upper/Low) Left	0.5/0.36	0.2/0.18	
Righ	t 0.33/0.31	0.62/0.38	

Bonus points (maximum 5)

Pole Test: Not eligible Seat belt reminders: None

Modifiers for offset test scores

Head	
Chest	
Upper leg	Conc. loading
Lower leg	-
Foot score	Brake pedal rear displace.

No deduction No deduction 1 pt deduction L & R No deduction Score zero points

Pedestrian rating (v4.0)

4.14 points out of 36

Child head impacts 2.14pts; adult head impacts zero pts; upper leg 2pts and lower leg impacts zero pts.



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