

Crash Tests

New Car Safety

Fiat 500

07/2007 on 01/0001 - Front+side+head airbags

Overall Evaluation



Overall Score

Variant: Pop 3 dr hatch without ESC

32.49 out of 37

Engine: 1.2 litre

Category: Light Car

Left Hand Drive

Important note: The 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 Fiat 500 was introduced in Australia during 2008. It is due in New Zealand later in 2008.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS) with electronic brake distribution (EBD) are also standard. Electronic stability control (ESC) is not available on the 1.2 Pop but is standard on other variants. 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.

Overall Evaluation: 4

4 Stars. The Fiat 500 scored 15.11 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 both the driver and passenger. The vehicle scored 15.80 out of 16 in the side impact crash test. There was a slight risk of serious chest injury for the driver. A further two points in the optional pole test. An ANCAP 5 star rating applies to Fiat 500s fitted with ESC. Without ESC, the vehicle is limited to an overall score of 32.49 and 4 stars.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.82 pts, upper legs 4 pts, lower legs 3.29 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 30 mm and downwards 5 mm. The steering wheel hub moved 3 mm forward, 17 mm upward and 1 mm sideways. The front ("A") pillar moved 7 mm rearwards. 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. There were no knee hazards. 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 3.8 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 (v4.1)



Child head impacts	4.76
Adult head impacts	3.25
Upper leg impacts	Zero
Lower leg impacts	5.57
Total (out of 36)	13.58

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 at 50km/h (v4.1)
	Driver	Passn	Driver
Head			
- HIC	563	357	64
- Acceleration (g for 3ms)	58.7	44.6	40.7
Neck			
- Shear (kN)	0.67	0.28	
- Tension (kN)	1.72	0.67	
- Extension (Nm)	18.9	18.4	
Chest			
- Acceleration (g for 3ms)	23.27	22.43	19.97
- Compression (mm)	0.08	0.1	0.12
- Viscous Criterion (m/s)			
Abdomen			
- Force (kN)			0.75
Pelvis			
- Force (kN)			2.31
Upper Legs Force (kN)			
- Left	0.52	0.28	
- Right	0.59	0.3	
Knee Displacement (kN)			
- Left	0.6	0.5	
- Right	2.6	0.3	
Lower Legs Force (kN)			
- Left	3.07	2.24	
- Right	2.36	1.27	
Index (Upper Lower)			
- Left	0.47 0.52	0.35 0.22	
- Right	0.43 0.39	0.35 0.42	

Bonus points (maximum 5)

Pole Test: 2 points

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	No deduction
Structure	4 points

Modifiers for side impact test scores

Head		
Chest	T12 load	0.2 pt deduction
Upper leg		
Lower leg		
Foot score		
Structure		



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