

Crash Tests

New Car Safety

Mazda 3

06/2009 on 01/2014 - Frontal+Side+Head

Overall Evaluation



Overall Score

Variant: Maxx 5 door hatch

33.33 out of 37

Engine: 1.6 litre

Category: Small Car

Safety Equipment, as tested, not standard on all variants

The 1.6 litre 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 Mazda3 was introduced in Australia during 2009. The Australian Mazda3 has a 2 litre engine.

Dual front airbags are standard equipment. Side airbags and head-protecting side curtains are needed for this 5-star ANCAP rating. They are optional on the Neo and standard on other variants. Antilock brakes (ABS), electronic brakeforce distribution (EBD), emergency brake assist and electronic stability control (ESC) are standard on all variants. Intelligent seat belt reminders are fitted to both front seats.

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 (lap) seat belt.

Overall Evaluation: 5

5 Stars. The Mazda3 scored 15.33 out of 16 in the offset crash test. The passenger compartment held its shape very well. Protection from serious injury was good for the driver. There was a slight risk of serious chest injury for the passenger.

The vehicle scored 15 out of 16 in the side impact crash test. Injury measurements were all good but the side curtain did not deploy correctly for the rear seat. This also occurred in pole test, which scored one point out of two.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.33 pts, upper legs 4 pts, lower legs 4 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 52 mm and upwards 16 mm. The steering wheel hub moved 15mm forward, 4mm downward and 11 mm sideways. The front ("A") pillar moved 2 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 3 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. One point was deducted for incorrect curtain airbag deployment for the rear seat in both the side impact and pole crash tests.

Pedestrian rating (v4.2)



The bumper scored maximum points for its protection of pedestrians' legs. However, in those areas most likely to be struck by an adult's head, the bonnet provided poor protection and scored no points.

Child head impacts 8.62

Adult head impacts 1.61

Upper leg impacts 2

Lower leg impacts 6

Total (out of 36) 18.23

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.2)		Side Impact Crash Test at 50km/h (v4.2)
	Driver	Passn	Driver
Head			
- HIC	253	163	46
- Acceleration (g for 3ms)	36.4	32	22.8
Neck			
- Shear (kN)	0.33	0.55	
- Tension (kN)	0.98	0.92	
- Extension (Nm)	19.7	9.3	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	20.92	26.68	19.73
- Viscous Criterion (m/s)	0.09	0.1	0.1
Abdomen			
- Force (kN)			0.76
Pelvis			
- Force (kN)			1.96
Upper Legs Force (kN)			
- Left	0.36	1.6	
- Right	0.04	0.1	
Knee Displacement (kN)			
- Left	0.2	1.8	
- Right	0	0.1	
Lower Legs Force (kN)			
- Left	1.44	1.65	
- Right	1.51	1.28	
Index (Upper Lower)			
- Left	0.37 0.19	0.16 0.16	
- Right	0.38 0.16	0.22 0.1	

Bonus points (maximum 5)

Pole Test: 1 pt

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 pts

Modifiers for side impact test scores

Head	Head - incorrect curtain deployment 1 pt deduction	side and pole tests
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Chest
Upper leg
Lower leg
Foot score
Structure



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