

Crash Test Results

New Car Safety

MAZDA2 (2 AIRBAGS)

2008 on

Dual front airbags



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.59 pts, upper legs 4 pts, lower legs 3.96 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 45 mm and upwards 17 mm. The steering wheel hub moved 4mm forward, 26 mm upward and 10 mm sideways. The front ("A") pillar moved 4 mm rearwards. All doors remained closed during the crash.

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 (ADR72)

Body region scores out of 4 points each: Head 4 pts, chest 2.32 pts, abdomen 4 pts, pelvis 4 pts.

Euro NCAP tested a Mazda2 equipped with head-protecting side airbags and so the results do not apply to the base model without side airbags. The NCAP crash test is based on a regulation crash test (ADR72) and ANCAP was provided with test data associated with a regulation crash test of the base model Mazda2. The test conditions were found to be consistent with the Euro NCAP test and the injury data from the regulation test were used for this assessment. Euro NCAP deducted one point for a door that opened in the side impact test. ANCAP has applied this deduction to the base model.

PEDESTRIAN PROTECTION: 2 Stars

The bumper was rated as predominantly fair for its protection of pedestrians' legs. The part of the bonnet surface likely to be struck by adults' heads was rated as predominantly poor.

Occupant Protection Score 30.85 out of 37

Variant: Neo 5 door hatch Eng: 1.3

Kerb weight: 995 kg Category: CAR - LIGHT

Vehicles built: 2007 Tested by Euro NCAP

Important note: The *left-hand-drive* European model with 1.3 litre engine 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.

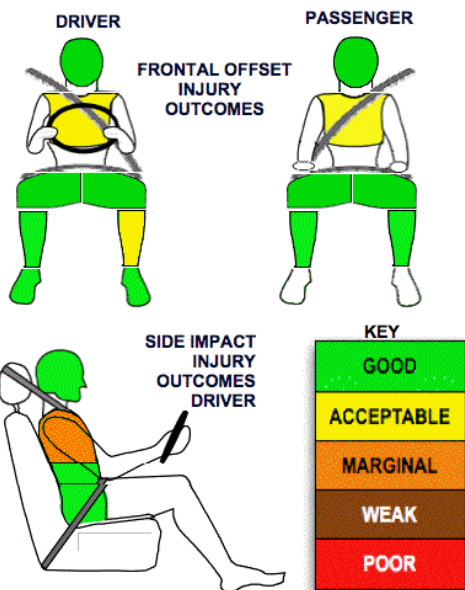
Model History and Safety Features


The tested model of Mazda2 was introduced in Australia at the end of 2007. Dual front airbags and antilock brakes (ABS) with electronic brake distribution (EBD) are standard. This 4-star rating applies to all hatch and sedan variants that *do not have* side airbags and inflatable curtains. Electronic stability control (ESC) became standard on Australian variants from May 2010. ESC was available on some variants prior to then. Intelligent seat belt reminders are fitted to both front seats.

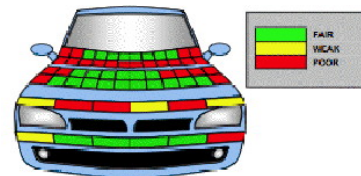
Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

OCCUPANT PROTECTION: 4 Stars

The Mazda2 scored 15.55 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 the driver. The vehicle scored 13.30 out of 16 in the side impact crash test. There was a slight risk of serious chest for the driver. A separate ANCAP rating is available for Mazda2 variants with side airbags and ESC.



PEDESTRIAN PROTECTION		
 ANCAP Rated ★ ★ ★ ★ Tested by Euro NCAP v4.1	Child head impacts	7.66
	Adult head impacts	4
	Upper leg impacts	2.38
	Lower leg impacts	4.45
	Total (out of 36)	18.49



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TECHNICAL DATA - MAZDA 2 (2 AIRBAGS) - 2008 on

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (ADR72 compliance)
	Driver	Passenger	Driver
Head HIC	231	225	119
Acceleration (g for 3ms)	40.5	37.0	46.7
Neck - Shear (kN)	0.37	0.41	-
Tension (kN)	1.23	0.70	-
Extension (Nm)	11.0	9.8	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	24.85	23.03	14.54
Viscous criterion (m/s)	0.09	0.06	0.10
Abdomen - Force (kN)	-	-	0.880
Pelvis - Force (kN)	-	-	2.890
Upper legs Force (kN)			
Left	0.24	1.63	
Right	0.00	0.40	
Knee displ (mm)			
Left	0.00	2.10	
Right	0.00	0.00	
Lower legs Force (kN)			
Left	1.80	1.09	
Right	1.75	1.30	
Index (Upper/Low)			
Left	0.41 /0.18	0.14 /0.16	
Right	0.33 /0.18	0.27/0.16	

Bonus points (maximum 5)

Pole Not eligible due to a lack of head-protecting side airbags

Seat belt reminders: 2 (see table below for details)

Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg Variable & conc. loading	No deduction
Lower leg	No deduction
Foot score	Score 4 points

Modifiers - deductions from side impact test scores

Chest T12 loading	1.7 pt deduction
Door opened	1 pt deduction

Safety features (May 2010)

These specifications are subject to change. Please check with manufacturer for the latest specifications.



Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/S
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	S	3 point centre rear seat belt	S
Side airbags, front seats - head protection	O	Active head restraints - front seats	S
Side airbags, rear seats - head protection	O	Intelligent seat belt reminder - driver	S
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	X

Key: ESC not standard on some variants prior to May 2010

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V= not available on base variant but standard or optional on higher variants

X = not available on any variant

ESC required by ANCAP for 5 star rating from 2008