

ANCAP Safety Rating

MAZDA CX-9 (July 2016 - onwards)



Mazda CX-9

This ANCAP safety rating applies to:

Make / Model	Mazda CX-9
Year Range	July 2016 - onwards
Variant(s)*	All variants
Vehicle Type	Large SUV

The tested model of Mazda CX-9 was introduced in Australia and New Zealand in July 2016. This ANCAP safety rating applies all front-wheel-drive and all-wheel-drive variants.

Dual frontal, side chest and side head-protecting airbags (curtains) are standard. All three seating rows (outboard seats) have head-protecting side curtain airbags and all seats have advanced seat belt reminders. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

Injury Outcomes.

Frontal Offset



Side Impact & Pole#



Whiplash Protection



	GOOD
	ACCEPTABLE
	MARGINAL
	POOR

Head protection only.

Test Results Summary.

Airbags	Dual Frontal, Side, Head
Frontal Offset Test	14.87 (out of 16)
Side Impact Test	16.00 (out of 16)
Pole Test	2.00 (out of 2)
Whiplash Protection	Good
Pedestrian Protection	Good
ESC	Standard
Seat Belt Reminders	3.00 (out of 3)
Overall Score	35.87 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year^	2016

Occupant Protection.

Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.54 points
Upper legs:	4.00 points
Lower legs:	3.33 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

Side Impact Test

Each body region is scored out of 4 points

Head:	4.00 points
Chest:	4.00 points
Abdomen:	4.00 points
Pelvis:	4.00 points

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the test vehicle. Experience shows that large vehicles like the CX-9 can be expected to perform well in this test. ANCAP has adopted a policy of awarding these types of vehicles a default score of 16 points (out of 16).

Pole Test

Scored out of 2 points

Score:	2.00 points
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The vehicle was eligible for a side pole test because it has side curtain airbags. The vehicle scored the maximum 2 points for head protection in this test.

Whiplash Protection Test

Whiplash protection is assessed to the RCAR Protocol

Geometric test:	Good
Dynamic test:	Good
Overall whiplash rating:	Good

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Pedestrian Protection.

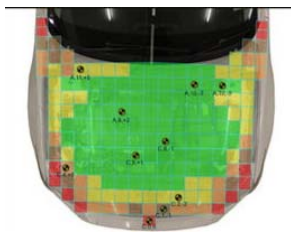
Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 18.97 points
 Upper leg impacts: 4.33 points
 Lower leg impacts: 6.00 points

This vehicle scored 29.30 out of 36 points (Good). Good results were obtained for most impact points. The front corners of the bonnet and the base of the A-pillars recorded some poor results for head impacts. (v8.3)

Child and adult head impact



Adult leg impact (upper and full legforms)



Score Deductions.

Deductions from frontal offset test scores

Head / neck: No deductions
 Chest: No deductions
 Upper legs: No deductions
 Lower legs: No deductions

Deductions from side impact test score

Head / neck: No deductions (default score awarded)
 Chest: No deductions (default score awarded)
 Upper legs: No deductions (default score awarded)
 Lower legs: No deductions (default score awarded)

Deductions from pole test score

Head: No deductions

Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at ancap.com.au.

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 nd row seats)	S
Intelligent seat belt reminder (3 rd row seats)	S
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 nd row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 nd row seats)	S
Airbag - Side, head protection (3 rd row seats)	S
Airbag - Knee (driver)	X
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	V
Adaptive front lighting systems	V
Antilock braking system (ABS)	S
Attention assist / fatigue warning	V
Autonomous emergency braking (AEB)	
- City	S
- Interurban	V
- Vulnerable road user	X
Automatic headlights	V
Automatic high beam	V
Blind spot monitoring (BSM)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal (ESS)	S
Lane support system (LSS)	V
Daytime running lights (DRL)	S
Hill launch assist	S
Reversing collision avoidance	S
Roll stability system	S
Speed assistance - automatic/intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting	X
Speed assistance - speed sign recognition & warning	X
Trailer stability control	S
Tyre pressure monitoring system (TPMS)	E

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.
E = Available in Europe / USA but not available on any Australasian variant.
 These specifications are subject to change. Please check with the manufacturer for the latest specifications.

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Injury Values & Measurements.

Body Region	Frontal offset test at 64 km/h (v5.1)		Side impact test at 50 km/h (v5.1)	
	Driver	Passenger	Driver	
Head				
HIC	153.00	248.00	HIGH-SEAT VEHICLE DEFAULT SCORE AWARDED	
Acceleration (g for 3ms)	34.50	38.20		
Neck				
Shear (kN)	0.31	-0.40		
Tension (kN)	1.01	0.81		
Extension (Nm)	8.20	15.00		
Chest				
Acceleration (g for 3ms)	-	-		
Compression (mm)	25.23	19.20		
Viscous criterion (m/s)	0.08	0.07		
Abdomen				
Force (kN)	-	-		
Pelvis				
Force (kN)	-	-		
Upper legs				
Femur force left (kN)	0.56	0.35		
Femur force right (kN)	0.03	0.09		
Knee displacement left (mm)	0.13	0.04		
Knee displacement right (mm)	0.08	0.04		
Lower legs				
Force left (kN)	0.13	2.06		
Force right (kN)	0.08	1.57		
Index (upper / lower) left	0.47 / 0.55	0.30 / 0.19		
Index (upper / lower) right	0.47 / 0.18	0.28 / 0.19		
Intrusion Measurements*				
Steering column				
Forward (mm)	-66			
Upward (mm)	-19			
Sideways (mm)	2			
Pedals				
Brake - rearward (mm)	76			
Brake - upward (mm)	5			
A-Pillar				
Rearward (mm)	1			

+ Steering column and pedal movements are measured relative to the driver's seat.

* **Model Variants:** ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

Assessment Details.

Tested Make / Model	Mazda CX-9 Touring
Tested Vehicle(s) Built	2016
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	1860 kg
Tested Vehicle Engine	2.5 litre petrol
Tested By	ANCAP
Assessed By	ANCAP
Document Reference	CX9_16
Document Created / Revised	28 June 2016
Rating Published	July 2016
Rating Updated	n/a



Frontal offset test at 64km/h