

Crash Test Results

New Car Safety

MITSUBISHI i-MiEV (6 airbags)

2011 on Front+side+head airbags



Offset crash test at 64km/h



ANCAP Occupant Protection
Rated ★★★★★

Occupant Protection Score 28.35 out of 37

Variant: 5 dr hatch Eng: Electric
Kerb weight: 1110 kg Category: CAR - LIGHT
Vehicles built: 2010 Test by JARI for ANCAP

Model History and Safety Features

The tested model of Mitsubishi i-MiEV will be introduced in Australia during 2011. This rating applies to vehicles produced from 2011, when side airbags and side curtains became standard.

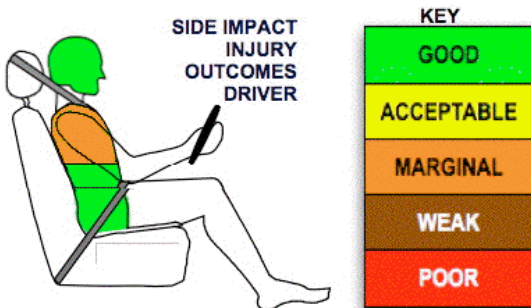
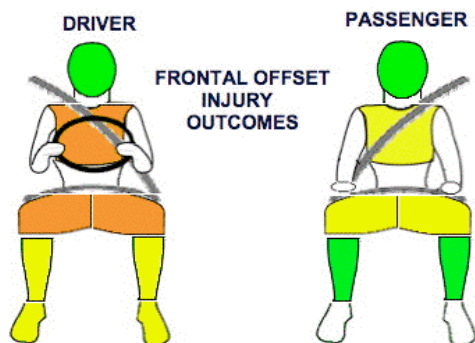
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD), emergency brake assist (EBA) and electronic stability control (ESC) are also standard. Advanced seat belt reminders are fitted to all seats.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash.

OCCUPANT PROTECTION: 4 Stars

The i-MiEV scored 10.95 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious chest and leg injury was marginal for the driver. The electrical system passed new regulatory safety checks after the test.

The vehicle scored 14.4 out of 16 in the side impact crash test. There was a moderate risk of serious chest injury for the driver.



FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 2.19 pts, upper legs 2 pts, lower legs 2.76 pts.

The offset crash test was conducted at JARI in Japan, under supervision of Japan NCAP. ANCAP personnel attended the crash test and conducted the post-crash assessment.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 98 mm and upwards 39 mm. Some footwell panels separated. The steering wheel hub moved 9 mm rearward, 31 mm upward and 16 mm sideways. The front ("A") pillar moved 66 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be fully opened with high manual effort.

The airbag cushioned the head of the driver and contact was stable. Steering column components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag. Dash components were a potential source of injury for the passenger's knees.

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4 pts, chest 2.4 pts, abdomen 4 pts, pelvis 4 pts.

In 2009 Japan NCAP tested a petrol version of this model but it was not equipped with head-protecting side airbags and so the results do not apply to Australian model. The NCAP crash test is based on ECE Regulation 95 and ANCAP was provided with test data associated with a regulation crash test of i-MiEV with side airbags and curtains. The test conditions were found to be consistent with the Japan NCAP test and the injury data from the regulation test were used for this assessment.

PEDESTRIAN PROTECTION: Pending

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imiev11.doc
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ANCAP
Crash testing for safety
AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

TECHNICAL DATA - MITSUBISHI i-MiEV - 2011 on (6 airbags)

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.2)		Side Impact Crash Test at 50km/h (ECE Regulation 95)
	Driver	Passenger	Driver
Head HIC	206	324	150
Acceleration (g for 3ms)	38.0	45.0	
Neck - Shear (kN)	0.11		-
Tension (kN)	1.07		-
Extension (Nm)	11.1	11.7	-
Chest Accln (g for 3ms)	37.980	29.840	-
Compression (mm)	34.65	30.36	17.00
Viscous criterion (m/s)	0.24	0.08	0.10
Abdomen - Force (kN)	-	-	0.600
Pelvis - Force (kN)	-	-	2.700
Upper legs Force (kN)			
Left	0.35	0.55	
Right	0.08	1.65	
Knee displ (mm)			
Left	2.33	0.45	
Right	0.91	2.14	
Lower legs Force (kN)			
Left	1.50	1.27	
Right	2.14	1.02	
Index (Upper/Low)			
Left	0.50 /0.23	0.27/0.13	
Right	0.58 /0.68	0.22/0.15	

Bonus points (maximum 5)

Pole Test: Not conducted

Seat belt reminders: 3 (see table below for details)

Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & conc. loading 2 pt deduction driver L & R
	Variable loading 1 pt deduction passn L & R
Lower leg	No deduction
Foot score	Footwell rupture Score 3 points

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

Modifiers - deductions from side impact test scores

Chest T12 spine loading	1.6 pt deduction
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Safety features

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	-
Side airbags, front seats - head protection	S	Whiplash protection	Pending
Side airbags, rear seats - head protection	S	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	S

Key:

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 - = not applicable

ESC required by ANCAP for 5 star rating from 2008

