

Crash Test Results

New Car Safety

GREAT WALL MOTORS SA220

2009 - 2010 No airbags



Offset crash test at 64km/h



ANCAP

Rated ★★☆☆☆

Occupant Protection

Occupant Protection Score 16.49* out of 37

* High risk of life-threatening head injury in offset test

Variant: DUAL CAB Eng: 2.4

Kerb weight: 1530 kg Category: UTILITY

Vehicles built: 4/09

Model History and Safety Features

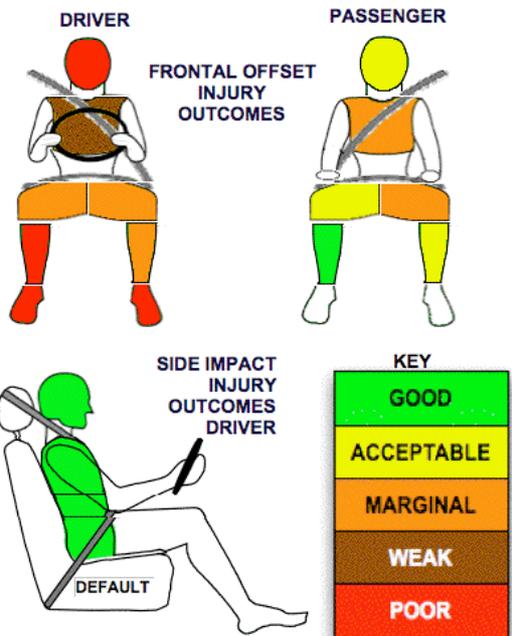
The tested model of Great Wall Motors SA220 was introduced in Australia during 2009.

The SA220 has minimal safety features (see table on next page). There are no top tether anchorages for child restraints so this vehicle is unsuitable for transporting young children.

OCCUPANT PROTECTION: 2 Stars

The SA220 scored 2.32 out of 16 in the offset crash test. The passenger compartment did not hold its shape well. Protection from serious head and leg injury was poor for the driver. Chest protection was weak for the driver.

The vehicle was awarded a default score of 16 out of 16 in the side impact crash test. However, the low offset score meant that the vehicle was limited to a 2 star rating and an overall score of 16.49 (the maximum available for a 2 star rating).



FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck Zero pts, chest 0.32 pts, upper legs 2 pts, lower legs zero pts.

The passenger compartment did not hold its shape well in the offset crash test. The accelerator pedal moved rearwards 230 mm and upwards 190 mm. The steering wheel hub moved 99 mm rearward, 127 mm upward and 13 mm sideways. The front ("A") pillar moved 114 mm rearwards. All doors remained closed during the crash. After the crash very high manual effort was required to open the driver's door.

The driver's head contacted the steering wheel. Steering column and dash components were a potential source of injury for the driver's knees. Dash and glove box components were a potential source of injury for the passenger's knees.

During preparation for the offset test the driver's seat slide mechanism was found to be difficult to engage and lock on both sides. As required by the test protocol, the seat was unoccupied at the time.

SIDE IMPACT CRASH TEST

Default 16 points awarded for side impact test.

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. It is based on a regulation test but the regulation does not apply to vehicles with a high seat height like the SA220. Experience shows that such vehicles can be expected to perform well in this test so ANCAP has decided to award full score for these vehicles instead of conducting a crash test.

PEDESTRIAN PROTECTION: 1 Star

Most test locations were poor.

PEDESTRIAN PROTECTION		
 v4.1	Child head impacts	Zero
	Adult head impacts	2.49
	Upper leg impacts	Zero
	Lower leg impacts	Zero
	Total (out of 36)	2.49



September 2009

PO Box 4041
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sa220_09.doc
Issued 21/9/2009



ANCAP

Crash testing for safety
AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

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TECHNICAL DATA - GREAT WALL MOTORS SA220 - 2009 on

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v)
	Driver	Passenger	Driver
Head HIC	1,137	722	0
Acceleration (g for 3ms)	103.2	66.6	0.0
Neck - Shear (kN)	0.98	1.47	-
Tension (kN)	3.48	2.80	-
Extension (Nm)	30.5	20.7	-
Chest Accln (g for 3ms)	43.800		-
Compression (mm)	38.80	37.70	0.00
Viscous criterion (m/s)	0.18	0.14	0.00
Abdomen - Force (kN)	-	-	0.000
Pelvis - Force (kN)	-	-	0.000
Upper legs Force (kN)			
Left	0.18	0.53	
Right	2.15	0.61	
Knee displ (mm)			
Left	0.06	1.72	
Right	0.10	0.09	
Lower legs Force (kN)			
Left	2.04	3.15	
Right	7.11	1.71	
Index (Upper/Low)			
Left	0.48 /0.54	/0.18	
Right	0.85 /0.69	0.32/0.26	

Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: None

Modifiers - deductions from offset test scores

Head	Steer column displacement	1 pt deduction
Chest	A-pillar displacement	0.28 deduction
	Loss of cabin structure	1 pt deduction
Upper leg	Variable & conc. loading	2 pt deduction L & R
	Driver	2pt L, 1 pt R
Lower leg	Pedal upward displacement	1 pt deduction
	Pedal rearward displacement	Score zero points

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

Modifiers - deductions from side impact test scores

Default score awarded

Safety features

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

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

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

ESC required by ANCAP for 5 star rating from 2008

