

Crash Test Results

New Car Safety

SSANGYONG ACTYON SPORTS UTE

2008 on

Dual front airbags



ANCAP Occupant Protection
Rated ★★★★★

Occupant Protection Score 24.01 out of 37

Variant: Tradie 4x2 Eng: 2 litre diesel

Kerb weight: 1840 kg Category: UTILITY

Vehicles built: 2010

Model History and Safety Features

The tested model of Ssangyong Actyon Sports Ute was introduced in Australia during 2008.

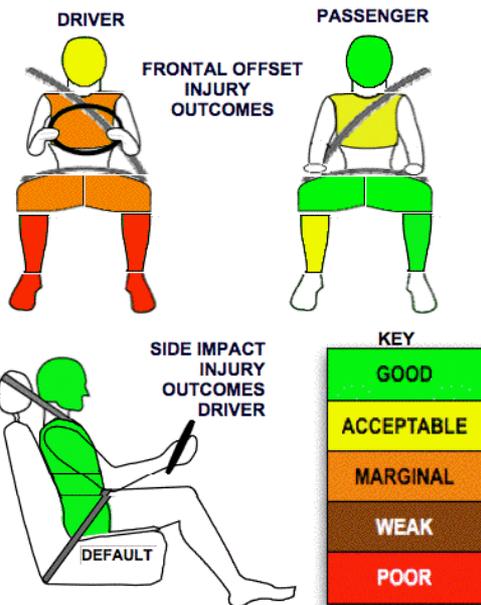
Dual front airbags are standard equipment. Antilock brakes (ABS) are available on some variants. An advanced seat belt reminder is fitted to the driver seat.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A two point seat belt is fitted to the centre rear seat. This provides inferior protection compared with a three point seat belt.

OCCUPANT PROTECTION: 3 Stars

The Actyon Sports Ute scored 7.01 out of 16 in the offset crash test. The passenger compartment had excessive floor deformation and pedal intrusion. Protection from serious leg injury was poor for the driver. Chest protection was marginal.

The vehicle was awarded a default score of 16 out of 16 in the side impact crash test. However, the low offset score limited the overall rating to 3 stars and 24.49 points (the maximum points available for a 3 star rating).



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 3 pts, chest 2.6 pts, upper legs 1.41 pts, lower legs zero pts.

There was excessive floor deformation and pedal movement. The brake pedal moved rearwards by 225 mm. The accelerator pedal moved upwards 112 mm. The steering wheel hub moved 23 mm rearward, 141 mm upward and 27 mm sideways. The front ("A") pillar moved 26 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with high manual effort. The fuel tank became partially detached but did not leak.

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

SIDE IMPACT CRASH TEST

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

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 Actyon. 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: POOR

Some points have been gained in the central area of the bonnet. Otherwise all regions performed poorly.

PEDESTRIAN PROTECTION	Child head impacts	3
POOR	Adult head impacts	Zero
	Upper leg impacts	Zero
	Lower leg impacts	Zero
	Total (out of 36)	3
	v5	



Child and adult head impact



Adult leg impact (upper and full legforms)

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actyonute10.doc

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ANCAP

Crash testing for safety

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NEW CAR ASSESSMENT
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TECHNICAL DATA - SSANGYONG ACTYON SPORTS UTE - 2008 on

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5)		Side Impact Crash Test at 50km/h
	Driver	Passenger	Driver
Head HIC	646	380	Default score awarded
Acceleration (g for 3ms)	70.4	48.7	
Neck - Shear (kN)	0.35	0.62	
Tension (kN)	1.98	1.40	
Extension (Nm)	9.6	9.5	
Chest Accln (g for 3ms)	39.400	43.800	
Compression (mm)	24.80	29.60	
Viscous criterion (m/s)	0.12	0.10	
Abdomen - Force (kN)	-	-	
Pelvis - Force (kN)	-	-	
Upper legs Force (kN)			
Left	3.55	1.35	
Right	4.58	2.22	
Knee displ (mm)			
Left	3.08	0.31	
Right	6.01	0.29	
Lower legs Force (kN)			
Left	5.89	1.06	
Right	6.76	2.59	
Index (Upper/Low)			
Left	1.12 /0.87	0.33 /0.36	
Right	0.68 /2.35	0.63/0.68	

Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: 1 pt (see below for details)

Modifiers - deductions from offset test scores

Head	Str column displacement	1pt deduction
Chest	Loss of structure	1pt deduction
Upper leg	Variable & conc. loading	2 pt deduction Left & Right
Lower leg	Pedal displacement	1pt deduction
Foot score	Pedal disp. & footwell rupture	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

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	V/X/?X
Passenger front airbag	S	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	Whiplash protection	Pending
Side airbags, rear seats - head protection	X	Intelligent seat belt reminder - driver	S
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	X
Seat belt pretensioners (Front/rear outboard)	S/X	Intelligent seat belt reminder - rear seats	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

