

Crash Test Results

New Car Safety

JEEP WRANGLER

From 2012 Dual front airbags



Offset crash test at 64km/h



ANCAP

Safety ★★★★★

Safety Rating

Occupant Protection Score 27.51 out of 37

Variant: Sport 2 door

Eng: 3.6 V6

Kerb mass: 1800 kg

Category: SUV - MEDIUM

Vehicles built: 2012

Model History and Safety Features

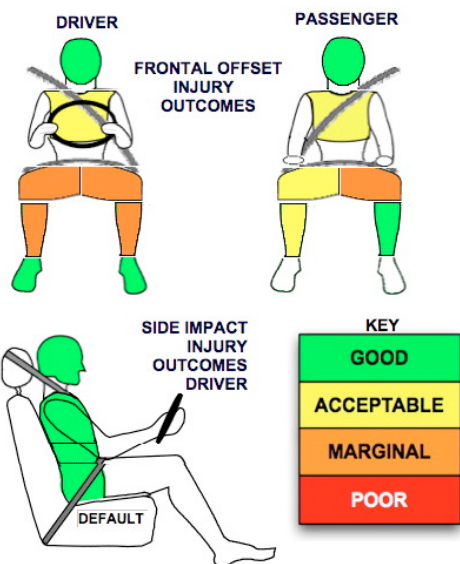
The tested model of Jeep Wrangler was introduced in Australia during 2007. This rating applies to the 2 door variant with a 3.6 V6 engine introduced in 2012.

Dual front airbags are standard. Side airbags with chest and head protection for front occupants are optional (these will soon become standard but do not change the ANCAP safety rating). Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are standard. An advanced seat belt reminder is fitted to the driver seat.

OCCUPANT PROTECTION: 4 Stars

The Wrangler scored 10.51 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the driver and passenger.

The vehicle was awarded a default score of 16 out of 16 in the side impact crash test.



FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.02 pts, upper legs 1.5 pts, lower legs 1.99 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 59 mm and upwards 52 mm. The steering wheel hub moved 41 mm rearward, 63 mm upward and 67 mm sideways. The front ("A") pillar moved 77 mm rearwards. All doors remained closed during the crash. After the crash the tools were required to open driver door.

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

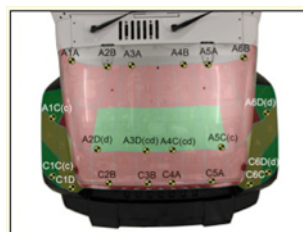
SIDE IMPACT CRASH TEST

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. Experience shows that large vehicles like the Wrangler can be expected to perform well in this test so ANCAP has decided to award a full score of 16 for these vehicles instead of conducting a crash test.

PEDESTRIAN PROTECTION: Poor

Some points have been gained in the central area of the bonnet and wheel guards. Many improvements could be made that would result in better performance for this vehicle.

PEDESTRIAN PROTECTION	Child head impacts	1.23
POOR v5.3	Adult head impacts	4
	Upper leg impacts	Zero
	Lower leg impacts	Zero
	Total (out of 36)	5.23



Child and adult head impact



Adult leg impact (upper and full legforms)

pass marginal fail

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wrangler12.doc Rated: 2012

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ANCAP

Crash testing for safety

AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

www.ancap.com.au

TECHNICAL DATA - JEEP WRANGLER - From 2012

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5.1)		Side Impact Crash Test at 50km/h (v5.1)
	Driver	Passenger	Driver
Head HIC	479	262	High-seat vehicle Default score awarded
Acceleration (g for 3ms)	55.1	42.3	
Neck - Shear (kN)	0.41	0.31	
Tension (kN)	1.33	0.71	
Extension (Nm)	20.7	6.9	
Chest Accln (g for 3ms)			
Compression (mm)	28.88	27.30	
Viscous criterion (m/s)	0.21	0.08	
Abdomen - Force (kN)	-	-	
Pelvis - Force (kN)	-	-	
Upper legs Force (kN)			
Left	1.82	3.53	
Right	3.59	2.65	
Knee displ (mm)			
Left	3.50	4.59	
Right	7.13	6.30	
Lower legs Force (kN)			
Left	5.01	1.72	
Right	4.21	3.04	
Index (Upper/Low)			
Left	0.59 /0.37	0.27 /0.16	
Right	0.56 /0.48	.4/.2	

Bonus points (maximum 5)

Pole Test: Not eligible

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

Modifiers - deductions from offset test scores

Head No deduction
 Chest No deduction
 Upper leg Variable & conc. loading Driver 2 pt deduction Left & Right
 Passenger 2 pt deduction Left
 Lower leg No deduction
 Foot score Score 4 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	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	O	3 point seat belt for all 4 forward-facing seats	S
Side airbags, front seats - head protection	O	Whiplash rating (RCAR protocol)	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