

# Crash Test Results

## New Car Safety

### SUBARU XV

From 2012 Front+side+head+knee airbags



Offset crash test at 64km/h (Impreza)



**ANCAP**

Rated ★★★★★

**Occupant Protection**

**Occupant Protection Score 35.33 out of 37**

Tested Variant: Impreza Sedan Eng: 2 litre

Kerb mass: 1350 kg Category: CAR - SMALL

Vehicles built: 2011

#### Model History and Safety Features

The Subaru XV is being introduced in Australia and New Zealand during 2012. This rating is based on ANCAP crash tests of the Impreza sedan. Subaru provided technical evidence to ANCAP to show that the crash test results apply to the XV, which has a higher ground clearance than the Impreza.

Dual front airbags, side airbags, head-protecting side curtains and a driver knee airbag are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) 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: 5 Stars

The vehicle scored 14.33 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest and leg injury for the driver and passenger.

The vehicle scored 16 out of 16 in the side impact crash test and a further two points in the pole test.

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.44 pts, upper legs 4 pts, lower legs 2.89 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 85 mm and upwards 45 mm. The steering wheel hub moved 40mm forward, 12mm downward and 21 mm sideways. The front ("A") pillar moved 1 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.

#### SIDE IMPACT CRASH TEST

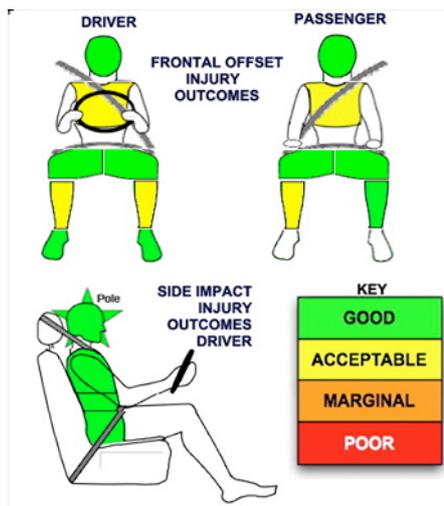
Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

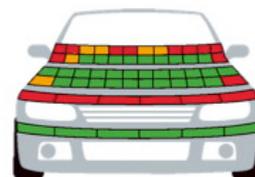
#### PEDESTRIAN PROTECTION: Acceptable

This rating is based on Euro NCAP tests. The bumper scored maximum points for its protection of pedestrians' legs. However, the front edge of the bonnet was poor in all areas tested and scored no points. In most areas where a child's head might strike, the bonnet provided good protection. However, the protection provided in those areas where an adult's head would strike was predominantly poor or marginal.

PEDESTRIAN PROTECTION	Child head impacts	11.04
<b>ACCEPTABLE</b>	Adult head impacts	5.89
	Upper leg impacts	Zero
	Lower leg impacts	6
	Total (out of 36)	22.93
	Tested by Euro NCAP v5.3	



#### Whiplash Protection



**PASS**

**MARGINAL**

**FAIL**

**JANUARY 2012**

PO Box 4041

Manuka ACT 2603

xv12.doc Rated: 2012

Issued 19/1/2012



**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

# TECHNICAL DATA - SUBARU XV - 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
<b>Head HIC</b>	288	290	40
Acceleration (g for 3ms)	46.2	46.2	21.9
<b>Neck - Shear (kN)</b>	0.38	0.84	-
Tension (kN)	1.28	1.41	-
Extension (Nm)	17.3	21.6	-
<b>Chest Accln (g for 3ms)</b>	38.70	46.20	-
Compression (mm)	25.93	24.90	12.20
Viscous criterion (m/s)	0.08	0.12	0.11
<b>Abdomen - Force (kN)</b>	-	-	0.630
<b>Pelvis - Force (kN)</b>	-	-	1.620
<b>Upper legs Force (kN)</b>			
Left	1.34	1.13	
Right	1.26	1.70	
Knee displ (mm)			
Left	3.36	1.84	
Right	2.89	0.00	
<b>Lower legs Force (kN)</b>			
Left	2.28	1.72	
Right	3.36	1.99	
Index (Upper/Low)			
Left	0.34 /0.42	0.27 /0.26	
Right	0.40 /0.65	0.46/0.48	

### Bonus points (maximum 5)

Pole Test: 2 pts

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 No deduction

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

Chest No deduction

### 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 seat belt for all forward-facing seats	S
Side airbags, front seats - head protection	S	Whiplash rating (RCAR protocol)	Good
Side airbags, rear seats - head protection	S	Intelligent seat belt reminder - driver	S
Driver knee airbag	S	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

# ESC required by ANCAP for 5 star rating from 2008

