Crash Test Results

New Car Safety

FORD KUGA

From 2011 **Front+side+head airbags**

ANCAP Rated ★★★★★ **Occupant Protection**

Occupant Protection Score **32.69 out of 37**

Variant: Trend LHD Eng: 2 litre diesel

Kerb mass 1610 kg Category: SUV - MEDIUM

Vehicles built: 2008 Tested by Euro NCAP

Important note: The *diesel left-hand-drive* European model was tested by Euro NCAP. ANCAP was provided with technical information which showed that all Australasian variants have comparable occupant protection.

Model History and Safety Features

The tested model of Ford Kuga was introduced in Australia and New Zealand in late 2011. ANCAP has been informed that a small number of Kugas imported into New Zealand do not have side curtain airbags and so are not eligible for a 5-star rating. The affected vehicles are badged "Zetec". All "Trend" and "Titanium" variants have side curtains and a 5-star rating.

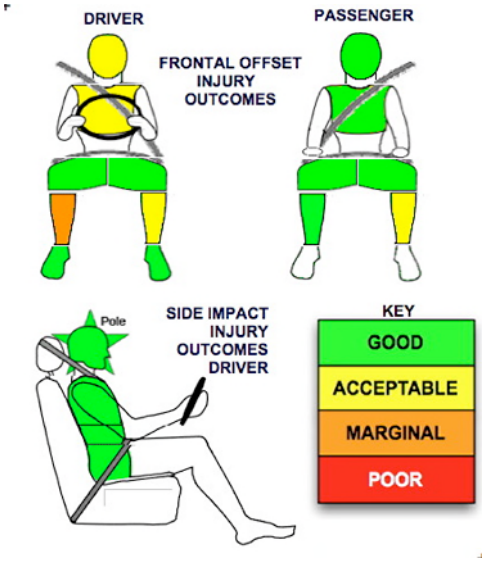
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.

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

OCCUPANT PROTECTION: 5 Stars

The Kuga scored 12.69 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.

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



Whiplash Protection





Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 3 pts, chest 3.38 pts, upper legs 4 pts, lower legs 2.31 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 85 mm and upwards 24 mm. The steering wheel hub moved 46mm forward, 12mm downward and 8 mm sideways. The front ("A") pillar moved 33 mm rearwards. All doors remained closed during the crash. After the crash the all doors could be opened with normal effort.

The airbag cushioned the head of the driver but it allowed the head to contact the steering wheel. The passenger's head was cushioned by the airbag. There were no knee hazards.

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 side impact test 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 Kuga. Experience shows that such vehicles can be expected to perform well in this test and the Kuga scored full marks.

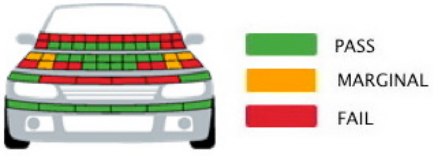
The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

*PEDESTRIAN PROTECTION: Acceptable**

The bumper scored maximum points for its protection of pedestrians' legs. However, the front edge of the bonnet was rated as predominantly poor, as was the protection offered to the head of a struck adult by the bonnet surface.

PEDESTRIAN PROTECTION		
ACCEPTABLE	Child head impacts	7.84
	Adult head impacts	4.5
	Upper leg impacts	2
Tested by Euro NCAP v4.1*	Lower leg impacts	6
	Total (out of 36)	20.34

* Based on tests to a previous protocol. Scores might vary under the latest test protocol.



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kuga11.doc

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TECHNICAL DATA - FORD KUGA - From 2011

INJURY MEASUREMENTS

Body region		Offset Crash Test at 64km/h (v4.2)		Side Impact Crash Test at 50km/h (v4.2)
		Driver	**Passenger**	**Driver**
Head HIC		372	309	18
Acceleration (g for 3ms)		46.9	43.9	14.4
Neck - Shear (kN)		0.37	0.60	-
Tension (kN)		1.34	0.97	-
Extension (Nm)		12.4	6.1	-
Chest Accln (g for 3ms)		-	-	-
Compression (mm)		26.33	21.34	18.23
Viscous criterion (m/s)		0.10	0.06	0.10
Abdomen - Force (kN)		-	-	0.620
Pelvis - Force (kN)		-	-	0.840
Upper legs Force (kN)	Left	0.00	1.75	
	Right	0.00	0.07	
Knee displ (mm)	Left	0.00	0.00	
	Right	0.00	0.10	
Lower legs Force (kN)	Left	1.34	2.54	
	Right	2.17	1.52	
Index (Upper/Low)	Left	0.43 /0.23	0.67 /0.33	
	Right	0.78 /0.61	0.24/0.12	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 2 (see table below for details)





Modifiers - deductions from offset test scores

Head	Airbag bottomed out	1 pt deduction
Chest		No deduction
Upper leg		No deduction
Lower leg		No deduction
Foot score		Score 4 points

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 protection (RCAR protocol)	Marginal
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	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

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