

# Crash Test Results

## New Car Safety

### NISSAN URVAN (NZ)

2001 on

Dual front airbags



Offset crash test at 64km/h

#### FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck zero pts, chest 0.37 pts, upper legs 0.95 pts, lower legs/feet zero pts.

The passenger compartment lost structural integrity in the offset crash test. The brake pedal moved rearwards by 367 mm and upwards 206 mm, to a position where it posed a hazard to the groin of the dummy. The steering wheel hub moved 11 mm rearward, 191 mm upward and 3 mm sideways. The front ("A") pillar moved 143 mm rearwards. All doors remained closed during the crash. After the crash tools were required to open the driver's door. The dummy's left foot was trapped by the deformed footwell and the dummy leg was dismantled for extrication. There was a leak from the diesel fuel tank. The top of the tank had been speared by the front suspension torsion bar which displaced rearwards in the crash.

Due to steering column movement, the airbag tended to deploy upwards. The airbag partly deployed under the driver's chin, causing excessive bending of the neck. Airbag contact was unstable. Steering column and dash components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag. There was no sign of passenger knee contacts.

#### SIDE IMPACT CRASH TEST (v4.1)

Body region 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 Urvan. 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

Not tested



Occupant Protection Score 8.49 out of 37

Variant: E25 Van

Eng: 3 litre diesel

Kerb weight: 1910 kg

Category: VAN - LARGE

Vehicle built: 2008

#### Model History and Safety Features

The tested model of Nissan Urvan was first manufactured in 2001. It is available in New Zealand but not Australia. After ANCAP decided to crash test this model it was advised that stocks of new models were no longer being shipped to New Zealand. However, in view of the second-hand imported vehicle market in New Zealand, ANCAP decided to proceed with the crash test.

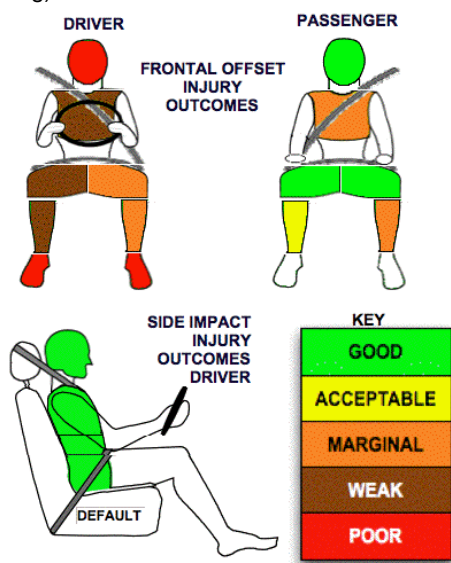
Dual front airbags and antilock brakes (ABS) are standard equipment. A load-sensing brake valve is also standard.

Pretensioners are fitted to the front outboard seat belts to reduce slack in the event of a crash. A two point seat belt is fitted to the fold-down centre front seat. This provides inferior protection compared with a three-point seat belt. This seating position also lacks airbag protection.

#### OCCUPANT PROTECTION: 1 Stars

The Urvan scored just 1.32 out of 16 in the offset crash test. The passenger compartment deformed excessively. Protection from serious head and foot injury was poor for the driver. Neck, chest and leg protection were weak.

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 1 star rating and an overall score of 8.49 (the maximum available for a 1 star rating).



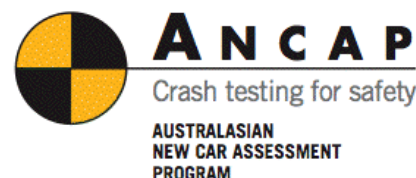
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# TECHNICAL DATA - NISSAN URVAN (NZ) - 2008 on

## INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passenger	Driver
<b>Head HIC</b>	684	289	Default score awarded
Acceleration (g for 3ms)	82.0	43.3	
<b>Neck - Shear (kN)</b>	0.64	0.77	
Tension (kN)	2.13	1.47	
Extension (Nm)	55.5	16.4	
<b>Chest Accln (g for 3ms)</b>	40.30	34.90	
Compression (mm)	34.40	33.40	
Viscous criterion (m/s)	0.16	0.17	
<b>Abdomen - Force (kN)</b>	-	-	
<b>Pelvis - Force (kN)</b>	-	-	
<b>Upper legs Force (kN)</b>			
Left	1.56	0.05	
Right	4.17	0.02	
Knee displ (mm)			
Left	1.55	0.77	
Right	8.36	0.15	
<b>Lower legs Force (kN)</b>			
Left	3.90	0.90	
Right	4.75	1.29	
Index (Upper/Low)			
Left	0.66 / 0.34	0.50 / 0.77	
Right	0.68 / 0.42	0.43 / 0.54	

### Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: None

### Modifiers - deductions from offset test scores

Head	Steer.col. movement & airbag instability	2pt deduction
Chest	A-pillar movement, loss of structure	1.86pt deduction
Upper leg	Variable & conc. loading	2 pt deduction L & R
Lower leg	Pedal upward	1pt deduction
Foot score	Pedal rearward, 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 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/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	-
Side airbags, front seats - head protection	-	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 outboard)	S*	Rear seat belt status indicator	-

Key: \* *Centre* front passenger seat has no airbag and a two-point seat belt with no pretensioner.

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



**ANCAP**

Crash testing for safety

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NEW CAR ASSESSMENT  
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