

# Crash Test Results

## New Car Safety

### NISSAN NAVARA D22 4x2

2008 on

Dual front airbags



Offset crash test at 64km/h



**ANCAP**

Rated ★★★★★

**Occupant Protection**

**Occupant Protection Score 21.57 out of 37**

Variant: DX 4X2 cab/chassis

Eng: 2.5 litre diesel

Kerb weight: 1500 kg

Category: UTILITY

Vehicle built: 3/08

#### Model History and Safety Features

The tested model of Nissan Navara D22 was introduced in Australia during 2001 and was superseded by the Navara D40 in 2005 (see separate ANCAP rating). The Navara D22 was reintroduced in 2008.

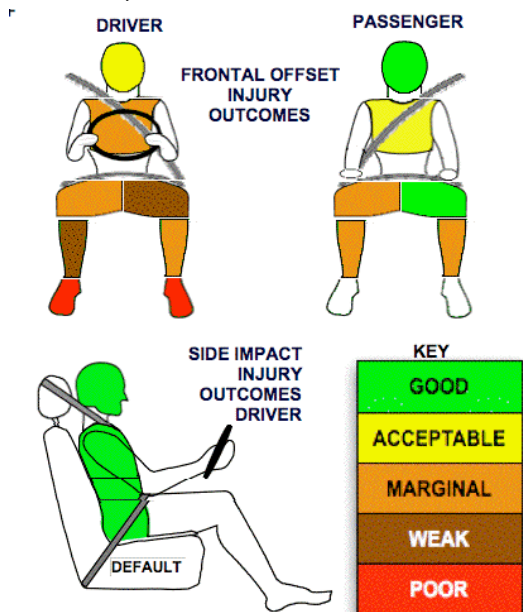
ANCAP has been advised that dual front airbags are now standard equipment for all variants of the Navara D22. Antilock brakes (ABS) are standard on the DX 4x2 and ST-R Dual Cab variants. Electronic stability control (ESC) is not available.

Pretensioners are fitted to the outboard seat belts to reduce slack in the event of a crash. Hazard lights activated during the offset crash test.

#### OCCUPANT PROTECTION: 3 Stars

The Navara scored 5.57 out of 16 in the offset crash test. The passenger compartment held its shape reasonably well, except for pedal movement and floor deformation. Protection from serious chest and leg injury was marginal for the driver. Leg protection was also marginal for the passenger.

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



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

Body region scores out of 4 points each: Head/neck 3 pts, chest 1.81 pts, upper legs 0.76 pts, lower legs zero pts.

After the crash the roof and door opening were in reasonable shape but the floor was severely deformed and ruptured around the transmission tunnel. The brake pedal moved rearwards by 243 mm and upwards 75 mm. The steering wheel hub moved 133 mm rearward, 22 mm upward and 21 mm sideways. The front ("A") pillar moved 51 mm rearwards. All doors remained closed during the crash. After the crash tools were required to open the driver door. The airbag cushioned the head of the driver and contact was stable. Steering column components were a potential source of injury for the driver's knees. The park brake lever was also a knee hazard but was just outside the assessed zone. The perimeter of the centre console was a knee hazard for the passenger. The seat slide mechanism of the bench seat released on the passenger side - probably due to floor and seat deformation at the peak of the crash. This is an extra hazard for the occupants.


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

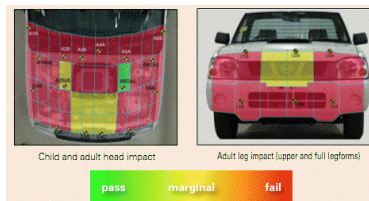
Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

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 Navara. 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: 1 Star

The car scored minimal head test points and received a small amount of points for one upper leg test. There is considerable scope for improvement to this vehicle to provide at least a basic level of pedestrian protection.

PEDESTRIAN PROTECTION		
 <p>Rated ★★★★★</p> <p>v4.1</p>	Child head impacts	0.05
	Adult head impacts	0.97
	Upper leg impacts	0.56
	Lower leg impacts	Zero
	Total (out of 36)	1.58



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**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

# TECHNICAL DATA - NISSAN NAVARA D22 4x2 - 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>	333	205	Default score awarded
Acceleration (g for 3ms)	50.7	34.6	
<b>Neck - Shear (kN)</b>	0.34	0.74	
Tension (kN)	1.50	1.12	
Extension (Nm)	21.6	28.1	
<b>Chest Accln (g for 3ms)</b>	36.500	30.300	
Compression (mm)	37.30	31.20	
Viscous criterion (m/s)	0.12	0.13	
<b>Abdomen - Force (kN)</b>	-	-	
<b>Pelvis - Force (kN)</b>	-	-	
<b>Upper legs Force (kN)</b>			
Left	5.44	0.29	
Right	1.38	3.45	
Knee displ (mm)			
Left	6.09	0.35	
Right	0.85	7.87	
<b>Lower legs Force (kN)</b>			
Left	3.91	2.27	
Right	6.04	3.85	
Index (Upper/Low)			
Left	0.67 /0.68	0.57 /0.99	
Right	1.14 /0.87	0.92/0.9	

### Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: None

### Modifiers - deductions from offset test scores

Head	Steer column movement	1 pt deduction
Chest		No deduction
Upper leg	Variable & conc. loading	2 pt deduction Left & Right drv
	Conc. loading	1 pt deduction Right, passn
Lower leg	Pedal upward movement	0.21 pt deduction
Foot score	Pedal rearward movement & 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	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	-
Side airbags, front seats - head protection	X	Active head restraints - front seats	X
Side airbags, rear seats - head protection	X	Intelligent seat belt reminder - driver	X
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	X
Seat belt pretensioners (Front/rear outboard)	S/-	Rear seat belt status indicator	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

