

# Crash Tests

## New Car Safety

### Nissan Navara

03/2008 on 01/0001 - Dual Frontal

#### Overall Evaluation



#### Overall Score

**21.57 out of 37**

Variant: D22 4x2 DX cab/chassis

Engine: 2.5 litre diesel  
Category: Utility

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The tested model of Nissan Navara D22 was introduced in Australia during 2001 and was superseded by the Navara D40 in 2005 (see separate ANCAP rating).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

#### Overall Evaluation: 3

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

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

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 rating (v4.1)



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.

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

Offset crash test at 64km/hr



#### Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1) Driver
	Driver	Passn	
<b>Head</b>			
- HIC	333	205	
- Acceleration (g for 3ms)	50.7	34.6	
<b>Neck</b>			
- Shear (kN)	0.34	0.74	
- Tension (kN)	1.5	1.12	
- Extension (Nm)	21.6	28.1	
<b>Chest</b>			
- Acceleration (g for 3ms)	36.5	30.3	
- Compression (mm)	37.3	31.2	
- Viscous Criterion (m/s)	0.12	0.13	
<b>Abdomen</b>			
- Force (kN)			
<b>Pelvis</b>			
- Force (kN)			
<b>Upper Legs Force (kN)</b>			
- Left	5.44	0.29	
- Right	1.38	3.45	
<b>Knee Displacement (kN)</b>			
- 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	
<b>Index (Upper   Lower)</b>			
- 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 for offset test scores

Head	Steer column movement	1 pt deduction
Chest		No deduction
Upper leg	Variable & Conc. Loading	2 pt deduct. L & R D, 2 pt deduct R P
Lower leg	Pedal upward movement	0.21 pt deduction
Foot score	Pedal rearward, Footwell rupture	zero
Structure	Note: Steering column & pedal movements are	measured relative to the driver's seat.

#### Modifiers for side impact test scores

Head	Default score for all
Chest	
Upper leg	
Lower leg	
Foot score	
Structure	



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