

# Crash Tests

## New Car Safety

### Nissan X-Trail

03/2007 on 02/2014 - Frontal+Side+Head

#### Overall Evaluation



**Overall Score**  
Variant: LHD Wagon

**26.59 out of 37**  
Engine: 2 litre diesel  
Category: Medium SUV

The diesel left-hand-drive European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

#### Model History and Safety Features

The tested model of Nissan X-TRAIL was introduced in Australia during 2007. Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders earned three bonus points from Euro NCAP but they are not fitted to the Australasian X-TRAIL. The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

#### Overall Evaluation: 4

4 stars. The X-TRAIL scored 8.59 out of 16 in the offset crash test. The passenger compartment held its shape well. Neck protection was weak for the driver. Protection from serious leg injury was marginal 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 optional pole test.

#### Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 0.61 pts, chest 3.51 pts, upper legs 2 pts, lower legs 2.46 pts. The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 126 mm and upwards 45 mm. The steering wheel hub moved 5 mm rearward, 45 mm upward and 13 mm sideways. The front ("A") pillar moved 41 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 but there was a risk of neck injury. Steering column and dash components were a potential source of injury for the driver's knees. The side curtain deployed. The passenger's head was cushioned by the airbag. Dash components were a potential knee hazard for the passenger.

#### 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 an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

#### Pedestrian rating (v4.1)



Child head impacts 5.27  
Adult head impacts 4  
Upper leg impacts Zero  
Lower leg impacts 3.12  
Total (out of 36) 12.39

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	258	164	42
- Acceleration (g for 3ms)	40.3	33.1	23.5
<b>Neck</b>			
- Shear (kN)	0.44	0.54	
- Tension (kN)	1.34	0.72	
- Extension (Nm)	54.7	34.3	
<b>Chest</b>			
- Acceleration (g for 3ms)			
- Compression (mm)	24.9	25.4	12.6
- Viscous Criterion (m/s)	0.08	0.08	0.07
<b>Abdomen</b>			
- Force (kN)			0.74
<b>Pelvis</b>			
- Force (kN)			1.09
<b>Upper Legs Force (kN)</b>			
- Left	0.4	2.34	
- Right	0	0.16	
<b>Knee Displacement (kN)</b>			
- Left	1.4	2.6	
- Right	0	0	
<b>Lower Legs Force (kN)</b>			
- Left	1.06	1.89	
- Right	1.11	1.31	
<b>Index (Upper   Lower)</b>			
- Left	0.53   0.3	0.21   0.37	
- Right	0.58   0.2	0.35   0.2	

#### Bonus points (maximum 5)

Pole Test: 2 pts  
Seat Belt Reminders: None

#### Modifiers for offset test scores

Head No deduction  
Chest No deduction  
Upper leg Variable & conc. loading for driver & passenger 2 pt deduction, L & R  
Lower leg No deduction  
Foot score Clutch displacement Score 2.46 pts  
Structure

#### Modifiers for side impact test scores

Head  
Chest No deduction  
Upper leg  
Lower leg  
Foot score  
Structure



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