

# Crash Tests

## New Car Safety

### HONDA CRV

2002 on

Dual front airbags

#### Overall Evaluation



#### Overall score

26.62 out of 34

Variant: CR-V

Eng: 4 cyl 2 litre (Europe).

Kerb weight: 1500 kg

Category: Compact 4WD

Vehicle for side impact test built: 4/02

**Important note:** The European model was used for the offset test conducted by EuroNCAP. ANCAP has been advised by Honda Australia that the vehicle sold in Australia is the same specification as the European model, apart from side airbags.

#### Model History and Safety Features

The tested model of HONDA CR-V was introduced in Australia late in 2001.

Dual front airbags are standard equipment. Side airbags are not available in Australia but are standard in Europe.

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. These seat belts also have load limiters.

A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt.

#### OVERALL EVALUATION : 4 Stars

The HONDA CR-V scored 10.62 out of 16 in the offset crash test conducted by EuroNCAP. The passenger compartment held its shape well. There was some risk of chest and leg injury for the driver.

The Australian vehicle (without side airbags) scored 16 out of 16 in the side impact crash test.

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 3pts, chest 2.5pts, upper legs 2pts, lower legs 3.12pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 89mm and upwards 25mm. The steering wheel hub moved rearwards 2mm, upwards -33mm and sideways 12mm. The front ("A") pillar moved 13mm rearwards. All doors remained closed during the crash.

The airbag cushioned the head of the driver but was found to have bottomed out. Components behind the dash were potential sources of knee injury for both the driver and passenger.

#### SIDE IMPACT CRASH TEST

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

This test simulates a fairly 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 CR-V. Such vehicles can be expected to perform relatively well in this particular side impact test.



Offset crash test at 64km/h

The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points, giving a maximum possible overall score of 34 points.

#### INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h (EuroNCAP)		Side Impact Crash Test at 50km/h
	Driver	Passn	Driver
Head HIC	392.7	279	74
Acceleration (g for 3ms)	51.8	45.8	44.3
Neck - Shear (kN)	0.37	0.57	-
Tension (kN)	2.33	1.39	-
Extension (Nm)	17.26	23.42	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	32.5	25.6	1.2
Viscous criterion (m/s)	0.13	0.1	0
Abdomen - Force (kN)	-	-	0.551
Pelvis - Force (kN)	-	-	0.74
Upper legs Force (kN)	Left 2.77 Right 2.8	2.16 1.48	
Knee displ (mm)	Left 2.54 Right 0.33	1.74 5	
Lower legs Force (kN)	Left 3.32 Right 2.87	2.44 1.71	
Index (Upper/Low)	Left 0.33/0.4 Right 0.54/0.34	0.28/0.43 0.47/0.46	

#### Bonus points

Pole Test: Not eligible

Seat belt reminders: Not eligible

#### Modifiers for offset test scores

Head	Unstable contact	1pt penalty
Chest		No penalty
Upper leg	Variable & Conc. loading	2pt penalty L&R
Lower leg		No penalty
Foot score		Score 4 points

#### Pedestrian rating (2002 protocol)



18.66 points out of 36 (51.8%)

Child head impacts 6.2pts; adult head impacts 7.92pts; upper leg zero pts and lower leg impacts 4.54pts.

#### December 2002

Published by  
New Car Assessment Program  
PO Box 1555  
Canberra ACT Australia 2601  
www.nrma.com.au/crashtests/  
crv\_02.doc issued 21-Nov-02

