

# Crash Tests

## New Car Safety

### LANDROVER DISCOVERY 3 (LHD)

2006 on Front + side & head airbags

#### Occupant Protection



**Occupant Protection Score 31.39 out of 37**

Variant: SE

Engine: 2.7 diesel

Kerb weight: 2640 kg

Category: 4WD - LARGE

Vehicles built: 2006

Test by Euro NCAP

**Important note:** 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 Landrover Discovery 3 was introduced in Australia during 2004.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. ABS/EBD brakes and electronic stability control are also standard. Advanced seat belt reminders are fitted to both front seats.

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. Pre-tensioners 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 seat belt.

#### OCCUPANT PROTECTION: 4 Stars

The Discovery scored 11.39 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious chest and leg injury was marginal for the driver. There was a moderate risk of serious leg injury for the passenger.

The vehicle scored 16 out of 16 in the side impact crash test. A further 2 points were scored in the optional pole test.

#### FRONTAL OFFSET CRASH TEST

*Body region scores out of 4 points each:* Head/neck 4 pts, chest 2.19 pts, upper legs 1.73 pts, lower legs 3.47 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 44 mm and upwards 5 mm. The steering wheel hub moved forwards 51mm, downwards 27mm and sideways 11 mm. The front ("A") pillar moved 11 mm rearwards. All doors remained closed during the crash. After the crash moderate manual effort was required to open the driver's 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 passenger's head was cushioned by the airbag. The glove box lid was a potential source of injury for the passenger's knees.

#### 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



Offset crash test at 64km/h

ahead with the pole test and the vehicle earned a further two points.

#### INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passn	Driver
Head HIC	234	288	7
Acceleration (g for 3ms)	36.7	4,306.0	10.2
Neck - Shear (kN)	0.34	0.38	-
Tension (kN)	0.99	0.73	-
Extension (Nm)	6.6	8.3	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	34.65	21.15	7.74
Viscous criterion (m/s)	0.12	0.08	0.02
Abdomen - Force (kN)	-	-	0.060
Pelvis - Force (kN)	-	-	0.400
Upper legs Force (kN)			
Left	2.08	4.16	
Right	1.69	2.84	
Knee displ (mm)			
Left	0.35	0.55	
Right	0.48	0.05	
Lower legs Force (kN)			
Left	1.76	1.13	
Right	1.14	1.20	
Index (Upper/Low)			
Left	0.23 /0.37	0.28 /0.13	
Right	0.32 /0.52	0.27/0.13	

#### Bonus points (maximum 5)

Pole Test: 2 pts Seat belt reminders: 2

#### Modifiers - 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 Score 4 points

#### Modifiers - side impact test scores

Chest No deduction

#### PEDESTRIAN PROTECTION RATING (v4.1)

Child head impacts	2.50	Upper leg impacts	Zero
Adult head impacts	5.62	Lower leg impacts	Zero
Total (out of 36)	8.12	★☆☆☆☆	



**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

November 2006

PO Box 1555  
 Canberra ACT  
 Australia 2601  
 discovery06.doc  
 Issued 29/11/06