

# ANCAP Safety Rating

## LAND ROVER DISCOVERY

(AUSTRALIA: July 2017 – December 2023)

(NEW ZEALAND: May 2017 - December 2023)



# ANCAP

Safety ★★★★★



Land Rover Discovery

### This ANCAP safety rating applies to:

Make / Model	Land Rover Discovery
Year Range	July 2017 - December 2023
Variant(s)*	All variants
Vehicle Type	Large SUV

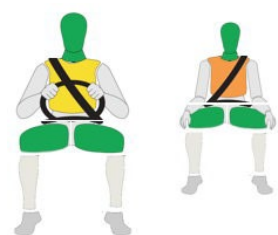
The tested model of Land Rover Discovery was introduced in New Zealand in May 2017 and in Australia in July 2017. This ANCAP safety rating applies to all variants.

Dual frontal, side chest and side head airbags (curtains) are standard. Autonomous emergency braking (AEB) and a lane departure warning system are fitted as standard. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

### Injury Outcomes.

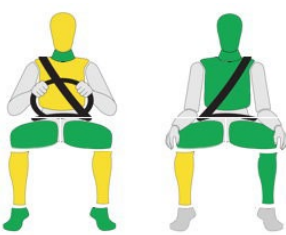
#### Full Width Frontal

Driver Rear Passenger



#### Frontal Offset

Driver Front Passenger



#### Side Impact

Driver



#### Pole

Driver



#### Whiplash Protection

Rear



Front



### Test Results Summary.

<b>Airbags</b>	Dual Frontal, Side, Head
<b>Adult Occupant Protection</b>	90% (34.25 out of 38)
- Full Width Frontal Test <sup>#</sup>	7.33 (out of 8)
- Frontal Offset Test <sup>#</sup>	6.88 (out of 8)
- Side Impact Test <sup>#</sup>	7.50 (out of 8)
- Pole Test <sup>#</sup>	8.00 (out of 8)
- Whiplash Protection Test	1.63 (out of 3)
- AEB (City)	2.92 (out of 3)
<b>Child Occupant Protection</b>	80% (39.45 out of 49)
<b>Safety Assist</b>	73% (8.80 out of 12)
- Speed Assistance System	1.50 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	1.70 (out of 3)
- AEB (Interurban)	2.60 (out of 3)
<b>Pedestrian Protection</b>	75% (31.67 out of 42)
<b>ANCAP Safety Rating</b>	★★★★★
<b>Rating Year<sup>^</sup></b>	2017

<sup>#</sup> Scaled scores. Total test score out of 16.00 points.

### Adult Occupant Protection.

#### Full Width Frontal Test

Each body region is scored out of 4 points

##### Driver

Head:	4.00 points
Neck:	4.00 points
Chest:	3.73 points
Upper legs:	4.00 points

##### Rear Passenger

Head:	4.00 points
Neck:	4.00 points
Chest:	1.58 points
Upper legs:	4.00 points

In the full width frontal test, protection of the driver and rear passenger was good apart from the chest, protection of which was acceptable for the driver and marginal for the rear passenger.

#### Frontal Offset Test

Each body region is scored out of 4 points

##### Driver / Front Passenger (lesser of each)

Head / neck:	3.00 points
Chest:	3.51 points
Upper legs:	4.00 points
Lower legs:	3.24 points

The passenger compartment of the Discovery remained stable in the frontal offset test. There was insufficient pressure in the driver's airbag to prevent the head from 'bottoming out' against the steering wheel, and the car was penalised.

#### Side Impact Test

#### Pole Test

Each body region is scored out of 4 points

Head:	4.00 points	Head:	4.00 points
Chest:	4.00 points	Chest:	4.00 points
Abdomen:	4.00 points	Abdomen:	4.00 points
Pelvis:	4.00 points	Pelvis:	4.00 points

Good protection of all critical body regions was seen in both the side impact test and the more severe side pole test. In the side impact test, the driver's door became unlatched and the car was penalised.

#### Whiplash Protection

Front / Rear:	1.63 points
Rear:	0.00 points
AEB (City):	2.92 points

A geometric assessment of the rear seats indicated poor protection from whiplash injury. The standard-fit autonomous emergency braking system performed well in tests of its low-speed functionality.

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### Child Occupant Protection.

#### Crash Test Performance

6 year old child: 10.92 points

10 year old child: 10.70 points

#### Child Safety Features & Child Seat Installation

Safety features: 7.00 points

Installation check: 10.83 points

**NOTE:** The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit [childcarseats.com.au](http://childcarseats.com.au).

### Pedestrian Protection.

#### Pedestrian Test

##### Scored out of 42 points

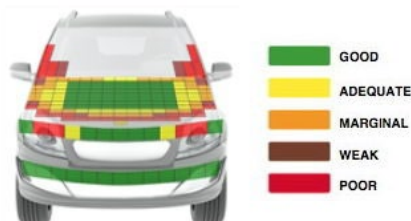
Adult & child head impacts: 15.55 points

Upper leg impacts: 4.12 points

Lower leg impacts: 6.00 points

AEB (VRU): 6.00 points

This vehicle scored 31.67 out of 42 points. Protection provided to the head of a struck pedestrian was good or adequate at most test locations, with some poor results recorded along the front edge of the bonnet. Protection offered by pedestrians' legs by the bumper was good and maximum points were scored. Protection of the pelvis was mixed, with some good and some poor areas. The autonomous emergency braking system scored maximum points for pedestrian protection. (Tested by Euro NCAP v8.3)



### Score Deductions.

#### Deductions from full width frontal test scores

Neck: No deductions  
Head: No deductions  
Chest: No deductions  
Upper legs / pelvis: No deductions  
Overall: No deductions

#### Deductions from frontal offset test scores

Head / neck: -1.00 point  
(unstable contact with driver airbag)  
Chest: No deductions  
Upper legs: No deductions  
Lower legs: No deductions  
Overall: No deductions

#### Deductions from side impact test score

Head / neck: No deductions  
Chest: No deductions  
Abdomen: No deductions  
Pelvis: No deductions  
Overall: -1.00 point (door opening)

#### Deductions from pole test score

Head / neck: No deductions  
Chest: No deductions  
Abdomen: No deductions  
Pelvis: No deductions  
Overall: No deductions

### Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at [ancap.com.au](http://ancap.com.au).

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Seat belt pretensioners (3 <sup>rd</sup> row seats)	S*
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	S
Intelligent seat belt reminder (3 <sup>rd</sup> row seats)	S*
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S
Airbag - Side, head protection (3 <sup>rd</sup> row seats)	S*
Airbag - Knee (driver)	X
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	O / S@
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	S
- Interurban	S
- Vulnerable road user	S
Automatic headlights	O / S#
Automatic high beam	O / S#
Blind spot monitoring (BSM)	O / S@
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal (ESS)	S
Lane support systems (LSS)	
- Lane departure warning (LDW)	S
- Lane keep assist (LKA)	O / S#
Daytime running lights (DRL)	S
Hill launch assist	S
Reversing collision avoidance	S
Roll stability system	S
Speed assistance – automatic / intelligent speed limiting (ISA)	X^@
Speed assistance - manual speed limiting	S
Speed assistance - speed sign recognition & warning	X
Tyre pressure monitoring system (TPMS)	O

**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.

**\*** = Where 3<sup>rd</sup> row seats are fitted.

**#** = Standard on vehicles built from June 2019.

**^** = Available on higher variants built from June 2019.

**@** = Standard on vehicles built from December 2020.

These specifications are subject to change. Please check with the manufacturer for the latest specifications.

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### Safety Assist.

#### Speed Assistance System (SAS)

Scored 1.5 out of 3 points

Speed information:	0.00
Speed assistance (manual):	1.50
Speed assistance (automatic / intelligent):	Not available

#### AEB (Interurban)

Scored 2.60 out of 3 points

Autonomous emergency braking (AEB):	1.31 out of 1.5
Forward collision warning (FCW):	0.92 out of 1.0
Human machine interface (HMI):	0.38 out of 0.5

#### Seat Belt Reminder (SBR)

Scored 3.0 out of 3 points

Driver and passenger:	Pass
Rear:	Pass (2 <sup>nd</sup> & 3 <sup>rd</sup> row seats)

#### Lane Support Systems (LSS)

Scored 1.7 out of 3 points

Type:	Lane departure warning
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The autonomous emergency braking (AEB) system performed well in tests of its functionality at highway speeds. A lane departure warning system is fitted as standard equipment, as is a driver-set speed limiter. A seatbelt reminder is standard equipment at all seating positions including, if fitted, the optional third row seats.

#### Approaching a stationary vehicle:

15.57 out of 18.00 points for Forward Collision Warning (FCW)



#### Approaching a slow moving vehicle:

10.51 out of 11.00 points for Autonomous Emergency Braking (AEB), 10.62 out of 11.00 for FCW



#### Approaching a braking vehicle with short headway:

1.57 out of 2.00 points for AEB, 1.92 out of 2.00 points for FCW



#### Approaching a braking vehicle with long headway:

1.58 out of 2.00 points for AEB, 1.80 out of 2.00 points for FCW



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### Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
<b>Head</b>						
HIC	198.00	137.00	83.00	303.00	19.00	471.54
Acceleration (g for 3ms)	49.20	39.20	33.00	57.80	18.70	73.27
<b>Neck</b>						
Shear (kN)	0.49	0.49	0.40	1.01	-	-
Tension (kN)	0.64	0.81	1.03	1.70	-	-
Extension (Nm)	21.70	15.20	16.00	13.80	-	-
<b>Chest</b>						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	24.46	21.38	19.61	32.50	7.62	27.56
Viscous criterion (m/s)	0.06	0.12	0.09	0.20	0.04	0.24
<b>Abdomen</b>						
Compression (mm)	-	-	-	-	5.09	25.88
<b>Pelvis</b>						
Force (kN)	-	-	-	-	0.18	
<b>Upper legs</b>						
Femur force left (kN)	1.35	0.46	0.34	0.30		
Femur force right (kN)	0.01	1.04	0.82	0.26		
Knee displacement left (mm)	0.00	0.00	0.79	1.20		
Knee displacement right (mm)	0.34	1.01	4.95	1.38		
<b>Lower legs</b>						
Force left (kN)	2.55	1.41	-	-		
Force right (kN)	2.26	2.16	-	-		
Index (upper / lower) left	0.57 / 0.25	0.31 / 0.15	-	-		
Index (upper / lower) right	0.28 / 0.13	0.33 / 0.15	-	-		
<b>Intrusion Measurements</b>						
<b>Steering column</b>						
Forward (mm)	66	-	-	-		
Downward (mm)	21	-	-	-		
Sideways (mm)	4	-	-	-		
<b>Pedals</b>						
Brake - rearward (mm)	50	-	-	-		
Brake - upward (mm)	7	-	-	-		
<b>A-Pillar</b>						
Rearward (mm)	13	-	-	-		

\* **Model Variants:** ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

### Assessment Details.

Tested Make / Model	Land Rover Discovery HSE RHD
Tested Vehicle(s) Built	2017
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	2390 kg
Tested Vehicle Engine	2.0 litre diesel
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	DISCOVERY17
Document Created / Revised	26 June 2017
Rating Published	June 2017
Rating Updated	Annual Review (2020)



Frontal offset test at 64km/h