

# ANCAP Safety Rating

## SUBARU LIBERTY / LEGACY

(2015 - onward)



### Test Vehicle(s).

<b>Test Variant:</b>	Subaru Outback 2.5i
<b>Kerb Mass:</b>	1600kg (Outback)
<b>Built:</b>	2014
<b>Engine:</b>	2.5L petrol
<b>Category:</b>	Medium Car
<b>Variant Applicability*:</b>	All variants



Frontal offset test at 64 km/h (Subaru Outback tested)

Airbags	ESC	Frontal Offset	Side Impact	Pole	Whiplash	Pedestrian	Seat Belt Reminders	Overall Score	ANCAP Safety Rating
Frontal + Side + Head + Knee	Standard	<b>14.99</b> (out of 16)	<b>16.00</b> (out of 16)	<b>2</b> (out of 2)	<b>GOOD</b>	<b>ACCEPTABLE</b>	<b>3</b> (out of 3)	<b>35.99</b> (out of 37)	<b>★★★★★</b>

The tested model of Subaru Liberty / Legacy was introduced in Australia and New Zealand in 2015. This rating is based on crash tests of a Subaru Outback. ANCAP was provided with evidence that the Liberty / Legacy gives comparable occupant protection to that of the Outback. This ANCAP safety rating applies to all Liberty / Legacy variants.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. The *Eyesight* system, with many crash avoidance functions, is standard on the Liberty / Legacy. Advanced seat belt reminders are fitted to all seats.

In the frontal offset crash test, driver chest and leg protection was acceptable. Passenger leg protection was also acceptable. In the side impact crash test, driver protection was good. Head protection in the side pole test was also good.

## OCCUPANT PROTECTION

### Frontal Offset Test.

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.48 points
Upper legs:	4.00 points
Lower legs:	3.51 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash. After the crash, all doors could be opened with normal effort.

### Side Impact Test.

Each body region is scored out of 4 points

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

Good protection was provided for the driver in the side impact test. The side airbags performed well.

### Pole Test.

Scored out of 2 points

The vehicle was eligible for a side pole test because it has side curtain airbags. The vehicle scored the maximum 2 points for head protection in this test.

### Whiplash Protection Test.

Whiplash protection is assessed to the RCAR Protocol

Geometric test:	Good
Dynamic test:	Good
Overall whiplash rating:	Good

### Injury Outcomes.

Frontal Offset Driver	Passenger	Side Impact & Pole Driver
<b>Whiplash</b>		

	GOOD
	ACCEPTABLE
	MARGINAL
	POOR

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Safety ★★★★★



## PEDESTRIAN PROTECTION

### Pedestrian Test.

**ACCEPTABLE** - Scored 25.32 out of 36 points

Adult and child head impacts: 18.92 points  
 Upper leg impacts: 0.40 points  
 Lower leg impacts: 6.00 points

This rating is based on Euro NCAP tests of the Subaru Outback. ANCAP was provided with information which showed that the Liberty can be expected to provide slightly better pedestrian protection. For the Outback, head protection was mostly good or acceptable. Lower leg protection was good but upper leg protection was mostly poor. (Tested by Euro NCAP v7.0)

#### Child and adult head impact



#### Adult leg impact (upper and full legforms)



Subaru Liberty / Legacy

## SAFETY FEATURES

These specifications are subject to change. Please check with manufacturer for the latest specifications. For a description of these safety features and safety rating requirements see the ANCAP Rating Road Map.

Safety Assist Technology (SAT)	Availability
Front airbag - driver	S
Front airbag - passenger	S
Side airbags (chest protection) - front seats	S
Side airbags (head protection) - front seats	S
Side airbags (head protection) - 2nd row seats	S
Knee airbag - driver	S
Three-point seat belts for all forward facing seats	S
Seat belt pretensioners (front / rear outboard)	S / S
Intelligent seat belt reminder - driver	S
Intelligent seat belt reminder - front passenger	S
Intelligent seat belt reminder - 2nd row seats	S
Head restraints for all seats	S
Antilock brakes (ABS)	S
Electronic brake distribution (EBD)	S
Emergency brake assist (EBA)	S
Electronic stability control (ESC)	S
Electronic data recorder (EDR)	S
Hill launch assist	S
Autonomous emergency braking (AEB)	S
Adaptive cruise control (ACC)	S
Lane support system	S
Attention assist (fatigue detection)	S
Reversing collision avoidance (camera)	S

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.  
 E = Available in Europe but not available on any Australasian variant.

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**ANCAP**  
Safety ★★★★★



### INJURY MEASUREMENTS

Body Region	Frontal offset test at 64 km/h (v5.1)		Side impact test at 50 km/h (v5.1)
	Driver	Passenger	Driver
<b>Head</b>			
HIC	221.00	236.00	15.00
Acceleration (g for 3ms)	40.70	36.70	14.90
<b>Neck</b>			
Shear (kN)	0.54	0.61	-
Tension (kN)	1.27	0.78	-
Extension (Nm)	11.10	25.30	-
<b>Chest</b>			
Acceleration (g for 3ms)	-	-	-
Compression (mm)	25.65	20.50	12.90
Viscous criterion (m/s)	0.12	0.07	0.05
<b>Abdomen</b>			
Force (kN)	-	-	0.46
<b>Pelvis</b>			
Force (kN)	-	-	0.67
<b>Upper legs</b>			
Femur force left (kN)	0.95	1.52	
Femur force right (kN)	1.07	1.61	
Knee displacement left (mm)	1.68	2.60	
Knee displacement right (mm)	0.81	0.79	
<b>Lower legs</b>			
Force left (kN)	2.32	2.33	
Force right (kN)	2.43	2.63	
Index (upper / lower) left	0.30 / 0.46	0.35 / 0.24	
Index (upper / lower) right	0.35 / 0.31	0.51 / 0.48	

### INTRUSION MEASUREMENTS

#### Steering Column

Forwards:	56mm
Downwards:	28mm
Sideways:	3mm

#### Pedals

Brake (rearwards):	26mm
Brake (upwards):	21mm

A-Pillar (rearwards): 1mm

Note: Steering column and pedal movements are measured relative to the driver's seat.

### SCORE DEDUCTIONS

#### Deductions from frontal offset test scores

No deductions for frontal offset test.

#### Deductions from side impact test score

No deductions for side impact test.

#### Deductions from pole test score

No deductions for pole impact test.

\* For information about the application of ANCAP ratings to model variants see the ANCAP Variant Policy. In brief, 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.

^ Refer ANCAP Rating Road Map ([www.ancap.com.au/media](http://www.ancap.com.au/media)).

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**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM