

Crash Tests

New Car Safety

Subaru Liberty

06/2009 to 12/2014 - Front+side+head

Overall Evaluation



Overall Score
Variant: Exiga

33.31 out of 37
Engine: 2.5
Category: Medium Car

Model History and Safety Features

The tested model of Subaru Liberty Exiga was introduced in Australia in 2009. 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. Advanced seat belt reminders are fitted to both front seats. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. All six seats have three point seat belts. Two child restraint top tether anchorages are provided.

Overall Evaluation: 5

5 Stars. The Exiga scored 13.31 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the 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 4 pts, chest 4 pts, upper legs 3 pts, lower legs 2.31 pts. The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 89 mm and upwards 38 mm. The steering wheel hub moved 19mm forward, 9 mm upward and 35 mm sideways. The front ("A") pillar moved 4 mm rearwards. All doors remained closed during the crash. After the crash the all doors could be opened with normal effort. 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 left knee. The passenger's head was cushioned by the airbag.

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. The manufacturer decided to go ahead with this test and the vehicle earned a further two points.

Pedestrian rating (v4.1)



Child head impacts 9
Adult head impacts 9
Upper leg impacts Zero
Lower leg impacts 6
Total (out of 36) 24

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	
Head			
- HIC	202	152	30
- Acceleration (g for 3ms)	36.8	32.9	20.7
Neck			
- Shear (kN)	0.24	0.68	
- Tension (kN)	1.46	1.01	
- Extension (Nm)	19.3	21.4	
Chest			
- Acceleration (g for 3ms)	34.8	37.4	
- Compression (mm)	20.9	19.4	10.6
- Viscous Criterion (m/s)	0.06	0.06	0.09
Abdomen			
- Force (kN)			0.69
Pelvis			
- Force (kN)			1.33
Upper Legs Force (kN)			
- Left	1.45	0.53	
- Right	0.23	1.77	
Knee Displacement (kN)			
- Left	1.2	0.02	
- Right	0.47	0.03	
Lower Legs Force (kN)			
- Left	2	1.38	
- Right	3.84	1.72	
Index (Upper Lower)			
- Left	0.68 0.67	0.39 0.31	
- Right	0.61 0.62	0.78 0.43	

Bonus points (maximum 5)

Pole Test: 2 points
Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Concentrated loading 1 pt deduction L
Lower leg	No deduction
Foot score	4 points
Structure	Note: Steering column & pedal movements are measured relative to the driver's seat

Modifiers for side impact test scores

Head	
Chest	No deduction
Upper leg	
Lower leg	
Foot score	
Structure	



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