

Crash Tests

New Car Safety

Subaru Forester

03/2008 on 12/2012 - Frontal+Side+Head

Overall Evaluation



Overall Score

34.31 out of 37

Variant: 2.5X

Engine: 2.5 litre

Category: Compact SUV

Model History and Safety Features

The tested model of Subaru Forester was introduced in Australia in March 2008. It is due to be released in New Zealand in the 2nd quarter of 2008. 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. 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. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

Overall Evaluation: 5

5 stars. The Subaru Forester scored 14.31 out of 16 in the offset crash test. The passenger compartment held its shape extremely well. Protection from serious lower leg injury was marginal for the driver. The vehicle scored 16 out of 16 in the side impact crash test and a further 2 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 4 pts, lower legs 2.31 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 111 mm and upwards 39 mm. The steering wheel hub moved 39mm forward, 24 mm upward and 33 mm sideways. The front ("A") pillar did not move rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. 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, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

Pedestrian rating (v4.1)



A reasonably good result for the Forester. The adult head region performed well. Most of the child head region performed marginally, as did the full leg region. The upper leg tests were uniformly poor.

Child head impacts	8.33
Adult head impacts	8.67
Upper leg impacts	Zero
Lower leg impacts	1.76
Total (out of 36)	18.75

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	151	146	34
- Acceleration (g for 3ms)	31.8	32	21.6
Neck			
- Shear (kN)	0.24	0.67	
- Tension (kN)	0.98	1.03	
- Extension (Nm)	13.6	13.3	
Chest			
- Acceleration (g for 3ms)	33.2	30.4	
- Compression (mm)	20.3	17.2	8
- Viscous Criterion (m/s)	0.06	0.06	0.05
Abdomen			
- Force (kN)			0.34
Pelvis			
- Force (kN)			0.7
Upper Legs Force (kN)			
- Left	0.44	0.49	
- Right	0.48	1.42	
Knee Displacement (kN)			
- Left	1.1	0	
- Right	1.19	0.17	
Lower Legs Force (kN)			
- Left	2.1	1.12	
- Right	1.32	1.4	
Index (Upper Lower)			
- Left	0.37 0.77	0.31 0.18	
- Right	0.35 0.78	0.3 0.29	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	Score 3.56 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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