# Crash Tests

## New Car Safety

## Subaru Forester

07/2004 on 06/2007 - Frontal+Side+Head

Overall Evaluation

**Overall Score** **32.78 out of 37**
Variant: Wagon
Engine: 2.5 Litre, 4 Cyl
Category: Compact SUV

Vehicles tested after 1 January 2008 will require Electronic Stability Control in order to achieve a 5 star rating. This vehicle was tested prior to this date and may or may not meet this new requirement.

### Model History and Safety Features

The tested model of SUBARU FORESTER was introduced in 2002. Vehicles built from February 2003 have improved knee protection and a seat belt reminder for the driver and this revised assessment applies to those vehicles.

Dual front and side airbags with head protection are standard equipment on all Subaru Foresters built from Aug 2004. ABS brakes are standard on all variants.

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. These seat belts also have load limiters. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt.

### Overall Evaluation: 5

The SUBARU FORESTER scored 13.78 out of 16 in the offset crash test. The passenger compartment held its shape very well. There was a slight risk of serious chest and leg injury for the driver and passenger.

The vehicle scored 16 out of 16 in the side impact crash test adn 2 points out of 2 in the optional pole test. This was the first vehicle tested by ANCAP to earn 5 stars.

### Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 2.67pts, upper legs 4pts, lower legs 3.111pts.

The passenger compartment held it shape very well in the offset crash test. The front part of the driver's floor was pushed rearwards 83mm. The brake pedal mounts released during the crash to reduce the risk of leg injury. The dash moved 11mm towards the driver. The steering wheel hub moved rearwards 2mm, upwards -28mm and sideways 20mm. The front ("A") pillar moved 10mm rearwards. The roof had almost no deformation. The width of the driver's doorway shortened by 11mm. 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. The driver's knees hit the steering column and dash. The passenger's head was cushioned by the airbag. The passenger's knees hit the glove box.

### Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 4pts, pelvis 4pts.

Protection from serious injury was good.

As the vehicle was fitted with head protecting side airbags the optional pole test was carried out of the vehicle scored 2 points out of a maxium of 2.

### Pedestrian rating (v3)

8.45 points out of 36 (23%)
Child head impacts 4pts;
Adult head impacts 4.45pts;
Upper leg zero pts and
Lower leg impacts zero pts.

Offset crash test at 64km/hr



### Injury Measurements

| Refer to the information sheet 'How the tests are done' | Offset Crash Test at 64km/h (v3.1) | | Side Impact Crash Test aa 50km/h (v3.1) |
|---|---|---|---|
| | Driver | Passn | Driver |
| Head | | | |
| - HIC | 398 | 307 | 214 |
| - Acceleration (g for 3ms) | 49.8 | 44.7 | 60.8 |
| Neck | | | |
| - Shear (kN) | 0.42 | 0.48 | |
| - Tension (kN) | 2.17 | 1.11 | |
| - Extension (Nm) | 24.4 | 19.35 | |
| Chest | | | |
| - Acceleration (g for 3ms) | 39.2 | 34.4 | |
| - Compression (mm) | 31.3 | 27.3 | 14.6 |
| - Viscous Criterion (m/s) | 0.19 | 0.12 | 0.08 |
| Abdomen | | | |
| - Force (kN) | | | 0.392 |
| Pelvis | | | |
| - Force (kN) | | | 2.03 |
| Upper Legs Force (kN) | | | |
| - Left | 1.01 | 0.7 | |
| - Right | 0.6 | 1.67 | |
| Knee Displacement (kN) | | | |
| - Left | 2.14 | 0.25 | |
| - Right | 0.35 | 0.09 | |
| Lower Legs Force (kN) | | | |
| - Left | 2.15 | 1.6 | |
| - Right | 2.44 | 1.96 | |
| Index (Upper \| Lower) | | | |
| - Left | 0.24 \| 0.34 | 0.38 \| 0.2 | |
| - Right | 0.52 \| 0.6 | 0.47 \| 0.39 | |

**Bonus points (maximum 5)**
Pole Test: 2 points
Seat Belt Reminders: Fitted to drivers seat - 1 point

**Modifiers for offset test scores**

| | |
|---|---|
| Head | No deduction |
| Chest | No deduction |
| Upper leg | No deduction |
| Lower leg | No deduction |
| Foot score | Score 4 points |
| Structure | No deduction |

**Modifiers for side impact test scores**

| | |
|---|---|
| Head | No deduction |
| Chest | No deduction |
| Upper leg | No deduction |
| Lower leg | No deduction |
| Foot score | No deduction |
| Structure | No deduction |

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