

Crash Test Results

New Car Safety

VOLVO C30 (LHD)

2007 on

Front+side+head airbags



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck 4 pts, chest 4 pts, upper legs 3 pts, lower legs 3.99 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 26 mm and upwards 8 mm. The steering wheel hub moved forwards 61mm and downwards 28mm. The front ("A") pillar moved 24 mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door.

The airbag cushioned the head of the driver and contact was stable. Steering column and dash components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag.

SIDE IMPACT CRASH TEST (v4.1)

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

The side curtain caught on a child restraint component and did not fully deploy.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and had a low risk of head injury in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

PEDESTRIAN PROTECTION RATING (v4.1)

| PEDESTRIAN PROTECTION | Child head impacts | 5.09 |
|-----------------------|--------------------|------|
| | Adult head impacts | 0.15 |
| | Upper leg impacts | Zero |
| | Lower leg impacts | 4 |
| | Total (out of 36) | 9.24 |

Occupant Protection Score 33.99 out of 37

Variant: 3 door hatch

Eng: 1.8 litre

Kerb weight: 1350 kg

Category: MEDIUM CAR/MPV

Vehicles built: 2007

Important note: The *left-hand-drive* European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

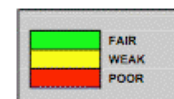
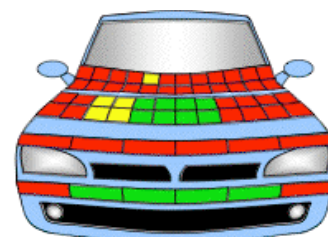
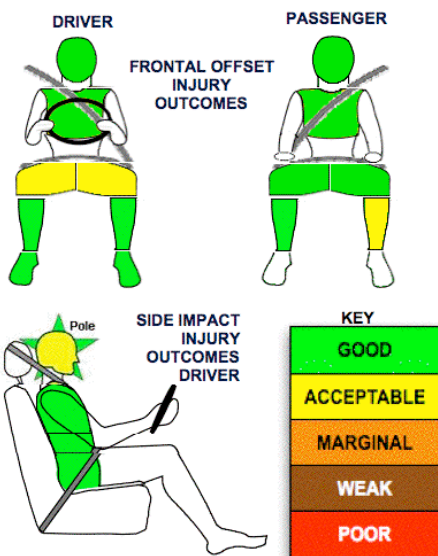
The tested model of Volvo C30 was introduced in Australia during 2007.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), with electronic brake distribution (EBD) are also standard. Electronic stability control (ESC) is standard on the T5 and optional on other variants. Intelligent seat belt reminders are fitted to both front seats.

The front seat belt buckles are mounted on the seats and the upper anchorages are self-adjusting. These features improve the fit of the seat belt. Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash.

OCCUPANT PROTECTION: 5 Stars

The Volvo C30 scored 14.99 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg injury for the driver and passenger. The vehicle scored 15 out of 16 in the side impact crash test. Injury measurements were good but the side curtain did not deploy fully during the crash. A further 2 points were earned in the optional pole test.



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TECHNICAL DATA - VOLVO C30 (LHD) - 2007 on

INJURY MEASUREMENTS

| Body region | Offset Crash Test at 64km/h (v4.1) | | Side Impact Crash Test at 50km/h (v4.1) |
|--------------------------------|---------------------------------------|------------|-----------------------------------------------|
| | Driver | Passenger | Driver |
| Head HIC | 169 | 169 | 74 |
| Acceleration (g for 3ms) | 34.4 | 32.1 | 26.2 |
| Neck - Shear (kN) | 0.23 | 0.38 | - |
| Tension (kN) | 1.28 | 0.86 | - |
| Extension (Nm) | 15.4 | 9.5 | - |
| Chest Accln (g for 3ms) | - | - | - |
| Compression (mm) | 18.74 | 17.17 | 19.85 |
| Viscous criterion (m/s) | 0.04 | 0.05 | 0.15 |
| Abdomen - Force (kN) | - | - | 0.540 |
| Pelvis - Force (kN) | - | - | 1.650 |
| Upper legs Force | | | |
| Left (kN) | 0.73 | 1.10 | |
| Right (kN) | 1.69 | 0.09 | |
| Knee displ (mm) | | | |
| Left | 0.00 | 1.00 | |
| Right | 1.20 | 0.00 | |
| Lower legs Force | | | |
| Left (kN) | 1.36 | 2.01 | |
| Right (kN) | 1.74 | 1.83 | |
| Index (Upper/Low) | | | |
| Left | 0.25 /0.30 | 0.36 /0.15 | |
| Right | 0.28 /0.14 | 0.29/0.21 | |

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 2 (see table below for details)

Modifiers - deductions from offset test scores

| | |
|------------|----------------------------------------------|
| Head | No deduction |
| Chest | No deduction |
| Upper leg | Variable loading 1 pt deduction Left & Right |
| Lower leg | No deduction |
| Foot score | Score 4 points |



Modifiers - deductions from side impact test scores

| | | |
|-------|-------------------|----------------|
| Head | Airbag deployment | 1 pt deduction |
| Chest | | No deduction |

Safety features

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

| | | | |
|----------------------------------------------|---|--------------------------------------------------------|-----|
| Driver airbag | S | Antilock (ABS) brakes / Electronic brake distribution | S/S |
| Passenger front airbag | S | Electronic stability control (ESC, VSC, DSC, ESP, VSA) | O |
| Side airbags, front seats - chest protection | S | 3 point centre rear seat belt | N/A |
| Side airbags, front seats - head protection | S | Active head restraints - front seats | S |
| Side airbags, rear seats - head protection | S | Intelligent seat belt reminder - driver | S |
| Driver knee airbag | X | Intelligent seat belt reminder - front passenger | S |
| Front seat belt pretensioners | S | Rear seat belt status indicator | S* |

* Although seat belt status indicators are fitted to all rear seats Euro NCAP found they were not eligible for a bonus point.

Key:

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