

ANCAP Safety Rating

TOYOTA RAV4

(August 2016 - onwards)



Toyota RAV4

This ANCAP safety rating applies to:

| | |
|--------------|-----------------------|
| Make / Model | Toyota RAV4 |
| Year Range | August 2016 - onwards |
| Variant(s)* | All variants |
| Vehicle Type | Medium SUV |

This updated Toyota RAV4 was introduced in Australia and New Zealand in September 2016. This ANCAP safety rating applies to all variants built from August 2016.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Autonomous emergency braking (AEB) and lane support systems (LSS) are available as part of an optional technology pack on GX and GXL variants and are standard on Cruiser variants. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

Injury Outcomes.

Frontal Offset Driver



Passenger



Side Impact & Pole# Driver



Whiplash Protection Driver



Head protection only.

Test Results Summary.

| | |
|-----------------------|--------------------------------|
| Airbags | Dual Frontal, Side, Head, Knee |
| Frontal Offset Test | 13.56 (out of 16) |
| Side Impact Test | 16.00 (out of 16) |
| Pole Test | 2.00 (out of 2) |
| Whiplash Protection | Good |
| Pedestrian Protection | Acceptable |
| ESC | Standard |
| Seat Belt Reminders | 3.00 (out of 3) |
| Overall Score | 34.56 (out of 37) |
| ANCAP Safety Rating | ★★★★★ |
| Rating Year^ | 2016 |

Occupant Protection.

Frontal Offset Test

Each body region is scored out of 4 points

| | |
|--------------|-------------|
| Head / neck: | 3.00 points |
| Chest: | 3.85 points |
| Upper legs: | 4.00 points |
| Lower legs: | 2.71 points |

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. The driver airbag allowed the head to contact the steering wheel lightly and a point was deducted. 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

| | |
|--------|-------------|
| Score: | 2.00 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 |

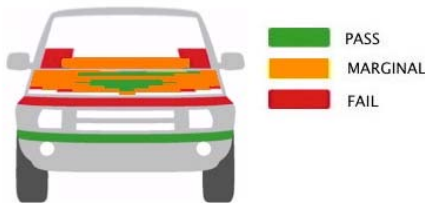
Pedestrian Protection.

Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 17.99 points
 Upper leg impacts: 0.00 points
 Lower leg impacts: 6.00 points

This vehicle scored 23.99 out of 36 points (Acceptable). The bumper provided good protection to pedestrians' legs in all areas tested and scored maximum points. However, the front edge of the bonnet scored no points, offering poor protection to the pelvis area. The bonnet offered predominantly fair protection for the head of a struck pedestrian, with some good protection in the areas where a child's head and an adult's head might strike. (Tested by Euro NCAP v6)



Score Deductions.

Deductions from frontal offset test scores

Head / neck: -1.00 point (airbag bottomed out)
 Chest: No deduction
 Upper legs: No deduction
 Lower legs: No deduction

Deductions from side impact test score

Chest: No deduction

Deductions from pole test score

Head: No deduction

Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at ancap.com.au.

| Safety Feature / Safety Assist Technology | Availability |
|---|--------------|
| Seat belts (three-point, lap/sash) for all forward-facing seats | S |
| Seat belt pretensioners (front) | S |
| Seat belt pretensioners (rear outboard) | X |
| Intelligent seat belt reminder (driver) | S |
| Intelligent seat belt reminder (front passenger) | S |
| Intelligent seat belt reminder (2 nd row seats) | S |
| Airbag - Frontal (driver) | S |
| Airbag - Frontal (passenger) | S |
| Airbag - Side, chest protection (front seats) | S |
| Airbag - Side, chest protection (2 nd row seats) | X |
| Airbag - Side, head protection (front seats) | S |
| Airbag - Side, head protection (2 nd row seats) | S |
| Airbag - Knee (driver) | S |
| Airbag - Knee (front passenger) | X |
| Head restraints for all seats | S |
| Adaptive cruise control (ACC) | O |
| Adaptive front lighting system | X |
| Antilock braking system (ABS) | S |
| Autonomous emergency braking (AEB) | |
| - City | O |
| - Interurban | O |
| - Vulnerable road user | E |
| Automatic headlights | O |
| Automatic high beam | O |
| Blind spot monitoring (BSM) | O |
| Electronic brakeforce distribution (EBD) | S |
| Electronic stability control (ESC) | S |
| Emergency brake assist (EBA) | S |
| Lane support system (LSS) | O |
| Daytime running lights (DRL) | S |
| Hill launch assist | S |
| Pre-crash systems | O |
| Reversing collision avoidance | S |
| Speed assistance - automatic/intelligent speed limiting (ISA) | X |
| Speed assistance - manual speed limiter & alarm | X |
| Speed assistance - speed sign recognition & warning | E |
| Tyre pressure monitoring system (TPMS) | E |

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

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 / USA but not available on any Australasian variant.

Injury Values & Measurements.

| Body Region | Frontal offset test at 64 km/h (v6) | | Side impact test at 50 km/h (v6) |
|--------------------------------|-------------------------------------|-------------|----------------------------------|
| | Driver | Passenger | Driver |
| Head | | | |
| HIC | 408.00 | 289.00 | 39.00 |
| Acceleration (g for 3ms) | 46.60 | 47.70 | 17.90 |
| Neck | | | |
| Shear (kN) | 0.47 | 0.65 | - |
| Tension (kN) | 1.39 | 0.81 | - |
| Extension (Nm) | 7.50 | 32.50 | - |
| Chest | | | |
| Acceleration (g for 3ms) | - | - | - |
| Compression (mm) | 23.07 | 17.47 | 9.66 |
| Viscous criterion (m/s) | 0.07 | 0.05 | 0.03 |
| Abdomen | | | |
| Force (kN) | - | - | 0.40 |
| Pelvis | | | |
| Force (kN) | - | - | 1.11 |
| Upper legs | | | |
| Femur force left (kN) | 1.55 | 1.01 | |
| Femur force right (kN) | 1.61 | 0.50 | |
| Knee displacement left (mm) | 0.20 | 2.96 | |
| Knee displacement right (mm) | 1.57 | 0.12 | |
| Lower legs | | | |
| Force left (kN) | 2.21 | 2.41 | |
| Force right (kN) | 3.93 | 1.56 | |
| Index (upper / lower) left | 0.33 / 0.23 | 0.27 / 0.23 | |
| Index (upper / lower) right | 0.33 / 0.41 | 0.30 / 0.35 | |
| Intrusion Measurements* | | | |
| Steering column | | | |
| Forward (mm) | 25 | | |
| Upward (mm) | 0 | | |
| Sideways (mm) | 9 | | |
| Pedals | | | |
| Brake - rearward (mm) | 72 | | |
| Brake - upward (mm) | 18 | | |
| A-Pillar | | | |
| Forward (mm) | 2 | | |

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

* ANCAP safety 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. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

Assessment Details.

| | |
|----------------------------|------------------|
| Tested Make / Model | Toyota RAV4 |
| Tested Vehicle(s) Built | 2013 |
| Tested Body Type | Wagon |
| Tested Vehicle Kerb Weight | 1680 kg |
| Tested Vehicle Engine | 2.2 litre diesel |
| Tested By | Euro NCAP |
| Assessed By | ANCAP |
| Document Reference | rav4_16 |
| Document Created / Revised | 3 October 2016 |
| Rating Published | October 2016 |
| Rating Updated | n/a |



Frontal offset test at 64km/h