

# ANCAP Safety Rating KIA RIO / STONIC (January 2017 - onwards)



Kia Rio

## This ANCAP safety rating applies to:

Make / Model	Kia Rio / Stonic
Year Range	January 2017 - onwards
Variant(s)*	RIO: All variants STONIC: 1.4 litre MPI variants only
Vehicle Type	Light Car / Small SUV

The tested model of Kia Rio (YB) was introduced in Australia and New Zealand in January 2017. This ANCAP safety rating applies to all Kia Rio variants and 1.4 litre MPI variants (S and Sport) of the Kia Stonic which is based on the Rio and shares the same structure and safety equipment / performance. The Kia Stonic GT is unrated.

Dual frontal, side chest and side head (curtain) airbags are standard. Advanced seat belt reminders are fitted to the front and 2nd row seats. Autonomous emergency braking (AEB) and lane support systems (LSS) are not available on 2017 to 2019 models of the Rio, but are standard on all Kia Stonic variants. The MY20 Rio update saw AEB and LSS added as an option on Australian-specified models and as standard on NZ-specified models. 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



	GOOD
	ACCEPTABLE
	MARGINAL
	POOR

# Head protection only.

## Test Results Summary.

Airbags	Dual Frontal, Side, Head
Frontal Offset Test	14.52 (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	35.52 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year^	2017

## Occupant Protection.

### Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.67 points
Upper legs:	4.00 points
Lower legs:	2.84 points

In the frontal offset test, protection for the driver's chest and lower legs was rated as acceptable. The passenger compartment held its shape well in the frontal offset test. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash.

### 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 test.

### Pole Test

Scored out of 2 points

Score:	2.00 points
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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

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**ANCAP**

Safety ★★★★★



## Pedestrian Protection.

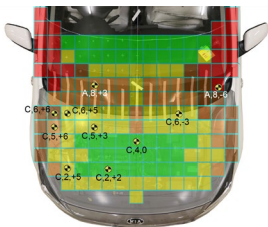
### Pedestrian Test

Scored out of 36 points

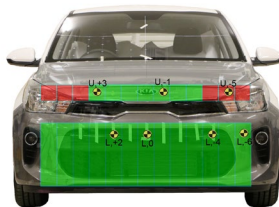
Adult & child head impacts: 14.51 points  
Upper leg impacts: 3.91 points  
Lower leg impacts: 6.00 points

This vehicle scored 24.42 out of 36 points. The bonnet offered mixed results for head protection for struck pedestrians with some good results seen in the bonnet centre, while marginal results were seen at the outer edges and at the base of the windscreen. Poor results were recorded at the stiff A-pillars. Protection offered by the bumper to lower leg impacts was good, while protection of the upper legs was good in the centre of the bonnet edge but poor in regions near the headlights. (v8.3)

#### Child and adult head impact



#### Adult leg impact (upper and full legforms)



## Score Deductions.

### Deductions from frontal offset test scores

Head / neck: No deductions  
Chest: No deductions  
Upper legs: No deductions  
Lower legs: No deductions  
Overall: No deductions

### Deductions from side impact test score

Head / neck: No deductions  
Chest: No deductions  
Abdomen: No deductions  
Pelvis: No deductions  
Overall: No deductions

### Deductions from pole test score

Head: No deductions

## 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](http://ancap.com.au).

Safety Feature / Safety Assist Technology	Availability		
	RIO MY17- MY19	RIO MY20 and STONIC AU	NZ
Seat belts (three-point, lap/sash) for all forward-facing seats	S	S	S
Seat belt pretensioners (front)	S	S	S
Seat belt pretensioners (rear outboard)	X	X	X
Intelligent seat belt reminder (driver)	S	S	S
Intelligent seat belt reminder (front passenger)	S	S	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	S	S	S
Airbag - Frontal (driver)	S	S	S
Airbag - Frontal (passenger)	S	S	S
Airbag - Side, chest protection (front seats)	S	S	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	X	X	X
Airbag - Side, head protection (front seats)	S	S	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S	S	S
Airbag - Knee (driver)	X	X	X
Airbag - Knee (front passenger)	X	X	X
Head restraints for all seats	S	S	S
Adaptive cruise control (ACC)	X	X	V
Antilock braking system (ABS)	S	S	S
Autonomous emergency braking (AEB)			
- City	X	V*	S
- Interurban	X	V*	S
- Vulnerable road user	X	V*	S
Automatic headlights	S	S	S
Automatic high beam	X	X	X
Blind spot monitoring (BSM)	X	X	V
Electronic brakeforce distribution (EBD)	S	S	S
Electronic stability control (ESC)	S	S	S
Emergency brake assist (EBA)	S	S	S
Fatigue reminder	X	S	S
Forward collision warning (FCW)	X	V*	S
Lane support system (LSS)	X	V*	S
Daytime running lights (DRL)	S	S	S
Hill launch assist	S	S	S
Reversing collision avoidance	S	S	S
Speed assistance - automatic / intelligent speed limiting (ISA)	X	X	X
Speed assistance - manual speed limiting	X	X	X
Speed assistance - speed sign recognition & warning	X	X	X
Tyre pressure monitoring system (TPMS)	X	X	X

**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.

**\*** = Standard on the Kia Stonic.

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

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## Injury Values & Measurements.

Body Region	Frontal offset test at 64 km/h (v5.1)		Side impact test at 50 km/h (v5.1)
	Driver	Passenger	Driver
<b>Head</b>			
HIC	297	459	99
Acceleration (g for 3ms)	41.80	50.80	30.60
<b>Neck</b>			
Shear (kN)	0.65	0.35	-
Tension (kN)	1.07	0.58	-
Extension (Nm)	6.60	13.10	-
<b>Chest</b>			
Acceleration (g for 3ms)	-	-	-
Compression (mm)	24.28	21.90	17.10
Viscous criterion (m/s)	0.09	0.06	0.07
<b>Abdomen</b>			
Force (kN)	-	-	0.81
<b>Pelvis</b>			
Force (kN)	-	-	2.08
<b>Upper legs</b>			
Femur force left (kN)	0.31	0.18	
Femur force right (kN)	0.04	0.33	
Knee displacement left (mm)	0.00	0.57	
Knee displacement right (mm)	0.00	0.53	
<b>Lower legs</b>			
Force left (kN)	3.48	2.05	
Force right (kN)	2.56	2.10	
Index (upper / lower) left	0.59 / 0.66	0.30 / 0.23	
Index (upper / lower) right	0.43 / 0.26	0.29 / 0.24	
<b>Intrusion Measurements*</b>			
<b>Steering column</b>			
Forward (mm)	63		
Upward (mm)	11		
Sideways (mm)	5		
<b>Pedals</b>			
Accelerator - rearward (mm)	25		
Brake - upward (mm)	11		
<b>A-Pillar</b>			
Rearward (mm)	2		

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

\* **Model Variants:** 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.

^ **Rating Year:** 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	Kia Rio S
Tested Vehicle(s) Built	2017
Tested Body Type	Hatch
Tested Vehicle Kerb Weight	1122 kg
Tested Vehicle Engine	1.4 litre petrol
Tested By	ANCAP
Assessed By	ANCAP
Document Reference	Rio_17
Rating Published	September 2017
Rating Updated	September 2020



Frontal offset test at 64km/h