



Kia Rio  
With Safety Pack

2017



Adult Occupant



93%

Child Occupant



84%

VRU Impact Protection



71%

Safety Assist



59%

## SPECIFICATION

Tested Model	Kia Rio 1.2 GLS, LHD
Safety pack	Advanced Driving Assistance Pack
Body Type	- 5 door hatchback
Year Of Publication	2017
Kerb Weight	1040kg
VIN From Which Rating Applies	- all Rios with optional safety pack
Class	Small Family Car

✗ Rating Expired

## SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	●	●	✗
Belt pretensioner	●	●	●
Belt loadlimiter	●	●	●
Knee airbag	✗	✗	✗
SIDE CRASH PROTECTION			
Side head airbag	●	●	●
Side chest airbag	●	●	✗
Side pelvis airbag	●	●	✗
	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✗	●
Integrated CRS	—	✗	✗
Airbag cut-off switch	—	●	—
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

## SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✗	●
Integrated CRS	—	✗	✗
Airbag cut-off switch	—	●	—
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

OTHER SYSTEMS	
Active Bonnet (Hood)	✗
AEB Pedestrian	○
AEB City	○
AEB Inter-Urban	○
Speed Assistance System	○
Lane Assist System	○

**Note:** Other equipment may be available on the vehicle but was not considered in the test year.

- Fitted to the vehicle as standard    ○ Fitted to the vehicle as part of the safety pack  
 ○ Not fitted to the test vehicle but available as option or as part of the safety pack    ✗ Not available    — Not applicable



ADULT OCCUPANT

Total 35.5 Pts / 93%



GOOD



ADEQUATE



MARGINAL



WEAK



POOR

Frontal Offset Deformable Barrier

6.8 Pts



Passenger



Driver

Frontal Full Width

7.6 Pts



Rear Passenger



Driver

Whiplash Rear Impact

2.0 Pts



Front seat



Rear seat

Lateral Impact

16.0 Pts



Car



Pole

AEB City

3.0

Performance: Good



ADULT OCCUPANT

Total 35.5 Pts / 93%



GOOD

ADEQUATE

MARGINAL

WEAK

POOR



## ADULT OCCUPANT

Total 35.5 Pts / 93%

## Comments

The passenger compartment remained stable in the frontal offset test. There was insufficient pressure in the driver's airbag to prevent the head from 'bottoming out' the airbag. Protection of the head was downgraded to adequate as a result. Dummy readings indicated good protection of the knees and femurs of both the driver and passenger. Kia showed that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. In the full-width rigid barrier test, protection of critical body areas was good or adequate for the driver and rear passenger. In the side barrier test and in the more severe side pole impact, protection of all critical parts of the body was good and the Rio scored maximum points in these tests. Tests on the front seats and head restraints demonstrated good protection against whiplash injuries in the event of a rear-end collision while a geometric assessment of the rear seats indicated marginal whiplash protection. The Rio has, as part of its optional safety pack, an autonomous emergency braking system. Tests of the functionality of this system at the low speeds typical of city driving demonstrated good performance, with collisions avoided at all test speeds.

## CHILD OCCUPANT

Total 41.2 Pts / 84%

GOOD ADEQUATE MARGINAL WEAK POOR

Crash Test Performance based on 6 &amp; 10 year old children

22.4 Pts

Frontal Impact

14.4 Pts



Lateral Impact

8 Pts

Restraint for 6 year old child: *Britax Römer KidFix II XP*Restraint for 10 year old child: *Graco Junior III*

## Safety Features

7.0 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	✗	●	✗
i-Size	✗	●	✗
Integrated CRS	✗	✗	✗

● Fitted to test car as standard    ○ Not on test car but available as option    ✗ Not available

## CRS Installation Check

11.8 Pts

● Install without problem    
 ● Install with care    
 ● Safety critical problem    
 ✗ Installation not allowed

## ■ i-Size CRS

 Maxi Cosi 2way Pearl & 2wayFix  
(rearward) (iSize)

 Maxi Cosi 2way Pearl & 2wayFix  
(forward) (iSize)


BeSafe iZi Kid X2 i-Size (iSize)



## ■ ISOFIX CRS

Maxi Cosi Cabriofix &amp; FamilyFix (ISOFIX)



BeSafe iZi Kid X4 ISOfix (ISOFIX)



Britax Römer Duo Plus (ISOFIX)



Britax Römer KidFix XP (ISOFIX)







## CHILD OCCUPANT

Total 41.2 Pts / 84%

## ■ Universal Belted CRS

Maxi Cosi Cabriofix (Belt)



Maxi Cosi Cabriofix &amp; EasyBase2 (Belt)



Britax Römer King II LS (Belt)



Britax Römer KidFix XP (Belt)



## Comments

In the frontal offset test, protection of the chest of the 6 year dummy was rated as marginal, based on dummy readings of chest decelerations. Otherwise, protection of the 6 and 10 year dummies was good or adequate. In the side barrier test, protection of both dummies was good. The front passenger airbag can be disabled to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. All of the restraint types for which the Rio is designed could be properly installed and accommodated in the car with the exception of the Group II/III universal restraint which was unstable in the rear centre position.



## CHILD OCCUPANT

Total 41.2 Pts / 84%

	Seat Position			
	Front	2nd row		
	PASSENGER	LEFT	CENTER	RIGHT
Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize)	—	●	—	●
Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)	—	●	—	●
BeSafe iZi Kid X2 i-Size (iSize)	—	●	—	●
Maxi Cosi Cabriofix & FamilyFix (ISOFIX)	—	●	—	●
BeSafe iZi Kid X4 ISOfix (ISOFIX)	—	●	—	●
Britax Römer Duo Plus (ISOFIX)	—	●	—	●
Britax Römer KidFix XP (ISOFIX)	—	●	—	●
Maxi Cosi Cabriofix (Belt)	●	●	●	●
Maxi Cosi Cabriofix & EasyBase2 (Belt)	●	●	✗	●
Britax Römer King II LS (Belt)	●	●	●	●
Britax Römer KidFix XP (Belt)	●	●	●	●

● Easy    ● Difficult    ● Safety critical    ✗ Not allowed    — Not available

## Comments

In the frontal offset test, protection of the chest of the 6 year dummy was rated as marginal, based on dummy readings of chest decelerations. Otherwise, protection of the 6 and 10 year dummies was good or adequate. In the side barrier test, protection of both dummies was good. The front passenger airbag can be disabled to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. All of the restraint types for which the Rio is designed could be properly installed and accommodated in the car with the exception of the Group II/III universal restraint which was unstable in the rear centre position.



## VRU IMPACT PROTECTION

Total 29.8 Pts / 71%

 GOOD

 ADEQUATE

 MARGINAL

 WEAK

 POOR

### VRU Impact Protection

26.0 Pts



Head Impact	14.0 Pts
Pelvis Impact	6.0 Pts
Leg Impact	6.0 Pts

### AEB Pedestrian

3.8 Pts

System Name	FCA
Type	Auto-Brake with Forward Collision Warning
Operational From	0 km/h
Additional Information	Defaults on for every journey; operates above 40km/h and in low ambient light

### PERFORMANCE |

	Autobrake Function	
	Avoidance	Mitigation
Running Adult crossing from Farside	Collision avoided up to 20 km/h	Impact mitigated up to 35 km/h
Walking Adult crossing from Nearside -25%	Collision avoided up to 25 km/h	Impact mitigated up to 45 km/h
Walking Adult crossing from Nearside -75%	Collision avoided up to 45 km/h	Impact mitigated up to 60 km/h
Running Child from behind parked vehicles	Collision avoided up to 35 km/h	Impact mitigated up to 45 km/h

### Comments

The bonnet provided predominantly good or adequate protection to the head of a struck pedestrian, with some poor results recorded on the stiff windscreen pillars. The bumper provided good protection to pedestrians' legs at all test locations and the pelvis was also well protected, the Rio scoring maximum points in these tests. The optional autonomous emergency braking system can detect pedestrians as well as other vehicles and performed adequately in tests of this functionality.





SAFETY ASSIST

Total 7.1 Pts / 59%



GOOD



ADEQUATE



MARGINAL



WEAK



POOR

Speed Assistance 0 Pts

Seatbelt Reminder 3.0 Pts

Applies To	All seats		
Warning	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Visual	●	●	●
Audible	●	●	●

● Pass ● Fail — Not available

Lane Support 1.5 Pts

System Name	Lane Departure Warning System
Type	Lane Departure Warning
Operational From	0 km/h
Warning	0

PERFORMANCE

LDW Confirmation Test	Pass
-----------------------	------



## SAFETY ASSIST

Total 7.1 Pts / 59%

## AEB Inter-Urban

2.6 Pts

System Name	AEB	
Type	Forward Collision Warning with Auto-Brake	
Operational From	8 km/h	
Additional Information	Default On	
PERFORMANCE   <div></div>		
	Autobrake Function Only	Driver reacts to warning
Operational Speed	8-160 km/h	8-160 km/h
Approaching a stationary car	See AEB City	Crash avoided up to 55km/h. Crash speed reduced up to 75km/h.
Approaching a slower moving car	Crash avoided up to 70km/h.	Crash avoided up to 80km/h.
FOLLOWING A CAR AT SHORT DISTANCE		
Car in front brakes gently	Avoidance	Avoidance
Car in front brakes harshly	Mitigation	Avoidance
FOLLOWING A CAR AT LONG DISTANCE		
Car in front brakes gently	Avoidance	Avoidance
Car in front brakes harshly	Avoidance	Avoidance

## Comments

A seatbelt reminder system is standard equipment for the front and rear seats. Autonomous emergency braking is part of the optional safety pack. In tests of this system at highway speeds, it performed well with collisions avoided in most test scenarios. The safety pack also includes a lane departure warning system which signals to the driver when the car is drifting out of lane. A speed assistance system is available as an option but does not form part of the safety pack and is not included in this assessment.

## RATING VALIDITY

### Variants of Model Range

Body Type	Engine	Drivetrain	Rating Applies	
			LHD	RHD
5 door hatchback	1.2 petrol*	4 x 2	✓	✓
5 door hatchback	1.4 petrol	4 x 2	✓	✓
5 door hatchback	1.0 T-GDI	4 x 2	✓	✓
5 door hatchback	1.4 CRDi	4 x 2	✓	✓
5 door hatchback	1.0 petrol mild hybrid	4 x 2	✓	✓

\*Tested variant

### Annual Reviews and Facelifts

Date	Event	Outcome	
	Rating Published	2017 ★ ★ ★ ★ ★	✓
September 2018	Annual Review	2017 ★ ★ ★ ★ ★	✓
September 2019	Annual Review	2017 ★ ★ ★ ★ ★	✓
June 2020	Facelift Review and addition of mild hybrid	2017 ★ ★ ★ ★ ★	✓
September 2020	Annual Review	2017 ★ ★ ★ ★ ★	✓
September 2021	Annual Review	2017 ★ ★ ★ ★ ★	✓