Hyundai TUCSON

Standard Safety Equipment

2021

Adult Occupant	Child Occupant
86%	87%

Vulnerable Road Users	Safety Assist
66%	70%

SPECIFICATION

Tested Model	Hyundai TUCSON 1.6 T-GDI HEV GLS, LHD
Body Type	- 5 door SUV
Year Of Publication	2021
Kerb Weight	1633kg
VIN From Which Rating Applies	- all TUCSONs
Class	Small Off-Road

Version 181021

SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	●	●	✖
Belt pretensioner	●	●	●
Belt loadlimiter	●	●	●
Knee airbag	✖	✖	✖
LATERAL CRASH PROTECTION			
Side head airbag	●	●	●
Side chest airbag	●	●	✖
Side pelvis airbag	●	●	✖
Centre Airbag	●	●	✖

SAFETY EQUIPMENT (NEXT)

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

OTHER SYSTEMS	
Active Bonnet	✖
AEB Vulnerable Road Users	●
AEB Pedestrian - Reverse	✖
AEB Car-to-Car	●
Speed Assistance	●
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

Version 181021

ADULT OCCUPANT

Total 33.0 Pts / 86%

GOOD | ADEQUATE | MARGINAL | WEAK | POOR

Frontal Impact — 12.4 / 16 Pts

Mobile Progressive Deformable Barrier

Full Width Rigid Barrier

Lateral Impact — 15.4 / 16 Pts

Side Mobile Barrier

Side Pole

Far-Side Excursion

Occupant Interaction

Rear Impact — 3.3 / 4 Pts

Rear Seat

Front Seat

Version 181021

ADULT OCCUPANT

Total 33.0 Pts / 86%

GOOD ADEQUATE MARGINAL WEAK POOR

Rescue and Extrication	2.0 / 2 Pts
Rescue Sheet	Available, ISO compliant
Advanced eCall	Available
Multi Collision Brake	Available

Comments

The passenger compartment of the TUCSON remained stable in the frontal offset test. Dummy numbers showed good protection of the knees and femurs of both the driver and passenger. Hyundai showed that a similar level of protection would be provided to the legs of occupants of different sizes and to those sitting in different positions. Protection of the driver's chest was marginal. Analysis of the deceleration of the impact trolley during the test, and analysis of the deformable barrier after the test, revealed that the TUCSON would be a moderately benign impact partner in a frontal collision. In the full-width rigid barrier test, good or adequate protection was provided to most critical body areas. However, driver chest protection was rated as marginal, based on dummy readings of compression. In the side barrier test, protection of all critical body areas was good or adequate. In the more severe side pole impact, protection of all critical body areas was good and the car scored maximum points for this part of the assessment. The TUCSON has a centre airbag to mitigate occupant to occupant injuries in the event of a lateral collision. In Euro NCAP's test, the airbag worked well, with good protection of the dummies' heads. Limitation of the extent to which a body is thrown to the other side of the car in a side impact was rated as adequate. Tests on the front seats and head restraints demonstrated good protection against whiplash injuries in the event of a rear-end collision. A geometric analysis of the rear seats also indicated marginal whiplash protection. The TUCSON has, as standard, an advanced emergency call system which alerts the emergency services in the event of a crash. The car also applies the brakes after a collision to prevent secondary impacts.

CHILD OCCUPANT

Total 42.8 Pts / 87%

GOOD | ADEQUATE | MARGINAL | WEAK | POOR

Crash Test Performance based on 6 & 10 year old children

23.8 / 24 Pts

Frontal Impact	16 Pts

Lateral Impact	7.8 Pts

Restraint for 6 year old child: *Britax Römer KidFix2 R*
Restraint for 10 year old child: *Graco booster*

Safety Features

7.0 / 13 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

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CRS Installation Check

12.0 / 12 Pts

Install without problem | Install with care | Safety critical problem | Installation not allowed

i-Size CRS

Maxi Cosi 2way Pearl & 2wayFix (i-Size)

Maxi Cosi 2way Pearl & 2wayFix (i-Size)

BeSafe iZi Kid X2 i-Size (i-Size)

Britax Römer TriFix2 i-Size (i-Size)

BeSafe iZi Flex FIX i-Size (i-Size)

ISOFIX CRS

BeSafe iZi Combi X4 ISOfix (ISOFIX)

Cybex Solution Z i-Fix (ISOFIX)

CHILD OCCUPANT

Total 42.8 Pts / 87%

Universal Belted CRS

Maxi Cosi Cabriofix (Belt)

Maxi Cosi Cabriofix & EasyFix (Belt)

Britax Römer King II LS (Belt)

Cybex Solution Z i-Fix (Belt)

CHILD OCCUPANT

Total 42.8 Pts / 87%

	Seat Position			
	Front	2nd row		
	PASSENGER	LEFT	CENTER	RIGHT
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	—	●	—	●
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	—	●	—	●
BeSafe iZi Kid X2 i-Size (i-Size)	—	●	—	●
Britax Römer TriFix2 i-Size (i-Size)	—	●	—	●
BeSafe iZi Flex FIX i-Size (i-Size)	—	●	—	●
BeSafe iZi Combi X4 ISOfix (ISOFIX)	—	●	—	●
Cybex Solution Z i-Fix (ISOFIX)	—	●	—	●
Maxi Cosi Cabriofix (Belt)	●	●	●	●
Maxi Cosi Cabriofix & EasyFix (Belt)	●	●	●	●
Britax Römer King II LS (Belt)	●	●	●	●
Cybex Solution Z i-Fix (Belt)	●	●	●	●

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

— Not available

Comments

In the both the frontal offset test and the side barrier impact, protection of all critical body areas was good or adequate for both child dummies. 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 child restraint types for which the TUCSON is designed could be properly installed and accommodated in the car.

Version 181021

VULNERABLE ROAD USERS

Total 36.1 Pts / 66%

GOOD ADEQUATE MARGINAL WEAK POOR

Pedestrian

23.8 / 36 Pts

Head Impact	16.2 Pts
Pelvis Impact	1.6 Pts
Leg Impact	6.0 Pts

Vulnerable Road Users

12.3 / 18 Pts

System Name	Forward Collision-Avoidance Assist
Type	Auto-Brake with Forward Collision Warning
Operational From	5 km/h

VULNERABLE ROAD USERS

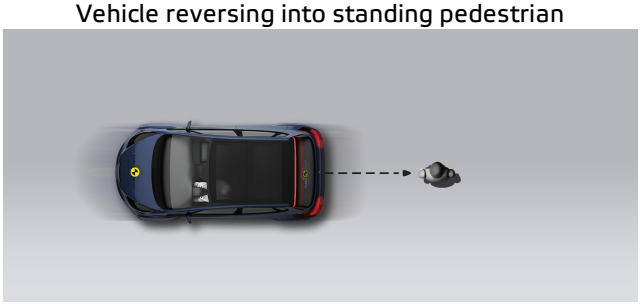
Total 36.1 Pts / 66%

AEB Pedestrian

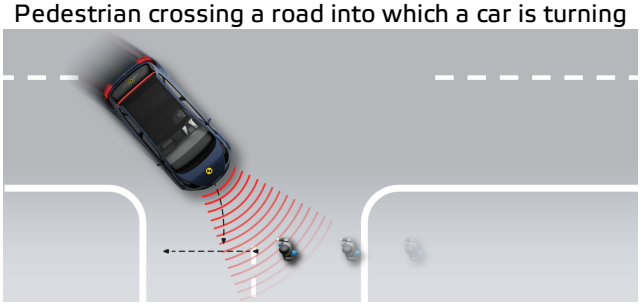
5.1 / 9 Pts

- **Day time**

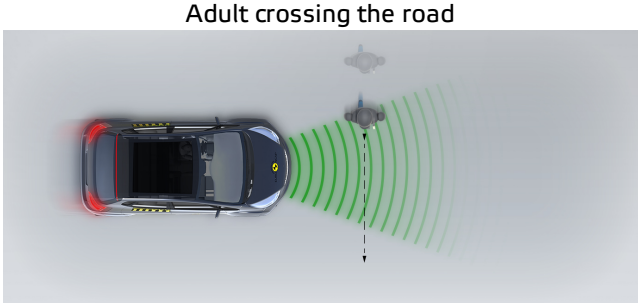
Vehicle reversing into standing pedestrian



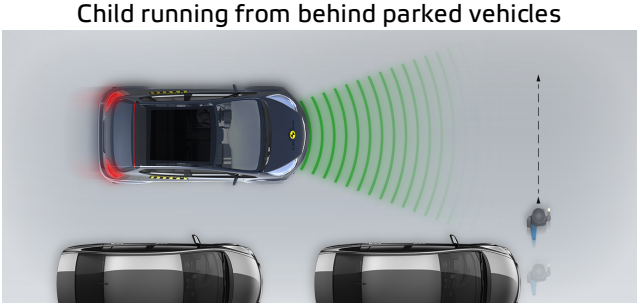
Pedestrian crossing a road into which a car is turning



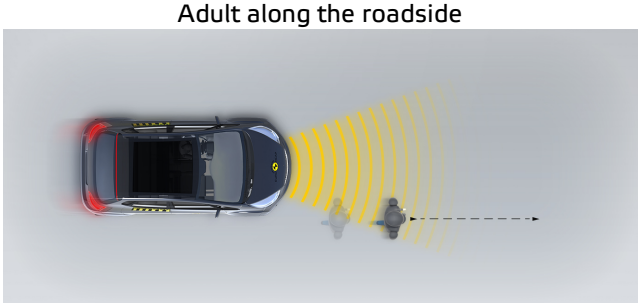
Adult crossing the road



Child running from behind parked vehicles

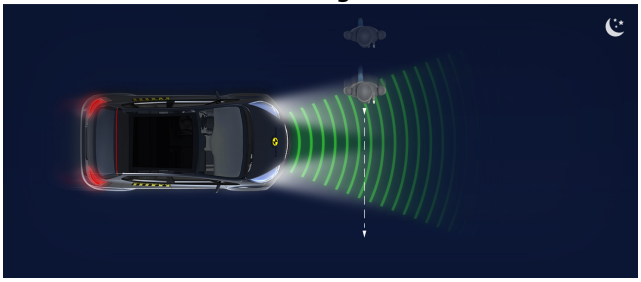


Adult along the roadside

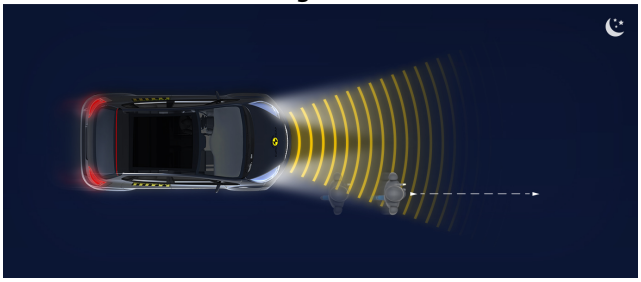


- **Night time**

Adult crossing the road



Adult along the roadside



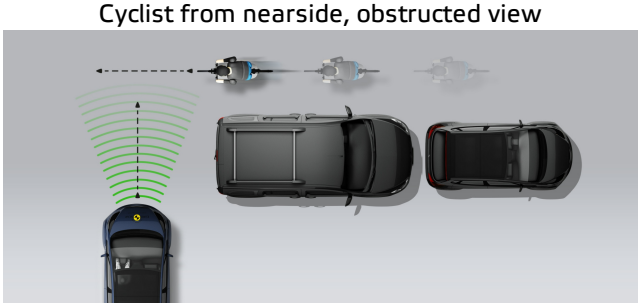
VULNERABLE ROAD USERS

Total 36.1 Pts / 66%

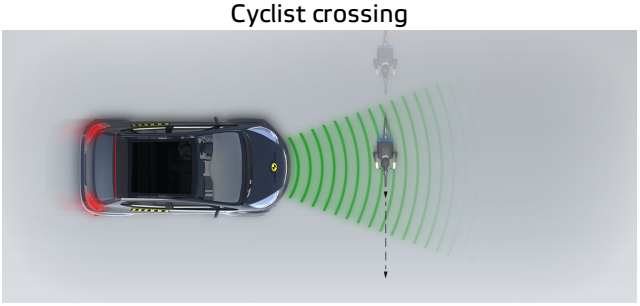
AEB Cyclist

7.2 / 9 Pts

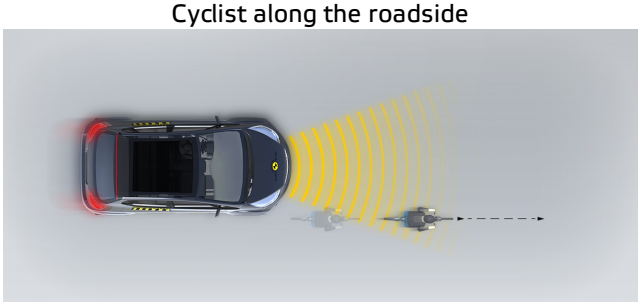
Cyclist from nearside, obstructed view



Cyclist crossing



Cyclist along the roadside



Comments

Good or adequate protection was provided to the head of a struck pedestrian over most of the bonnet surface, with some areas of poor protection on the stiff windscreen pillars. The bumper provided good protection to pedestrians' legs at all test locations. However, protection of the pelvis was predominantly poor. The autonomous emergency braking system of the TUCSON detects vulnerable road users, as well as other vehicles. The system's response to pedestrians was adequate and to cyclists was good.

SAFETY ASSIST

Total 11.3 Pts / 70%

GOOD ADEQUATE MARGINAL WEAK POOR

Speed Assistance

2.5 / 3 Pts

System Name	Manual Speed Limit Assist (MSLA) / Intelligent Speed Limit Assist (ISLA)
Speed Limit Information Function	Camera based, subsigns supported
Speed Limitation Function	System advised (accurate to 5km/h)

Occupant Status Monitoring

2.7 / 3 Pts

Seatbelt Reminder

1.7 / 2 Pts

Applies To	Front and rear seats, including third row		
Warning	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Visual	●	●	●
Audible	●	●	●
Occupant Detection	—	●	●

● Pass ● Fail — Not available

Driver Monitoring

1.0 / 1 Pts

System Name	Driver Attention Alert
Type	Steering inputs
Operational From	30 km/h

SAFETY ASSIST

Total 11.3 Pts / 70%

Lane Support

3.3 / 4 Pts

System Name	LKA-L / LKA-R
Type	LKA and ELK
Operational From	60 km/h
PERFORMANCE	
Emergency Lane Keeping	GOOD
Lane Keep Assist	GOOD
Human Machine Interface	GOOD

AEB Car-to-Car

2.9 / 6 Pts

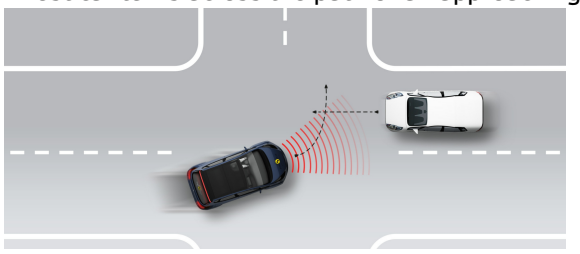
System Name	Forward Collision-Avoidance Assist
Type	Autonomous emergency braking and forward collision warning
Operational From	5 km/h
Sensor Used	camera

SAFETY ASSIST

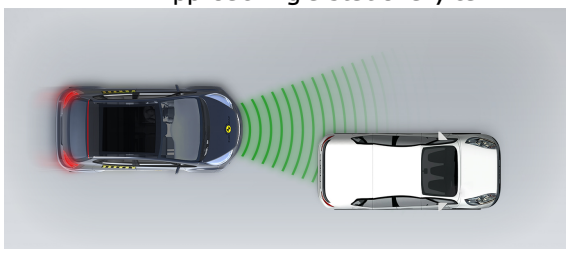
Total 11.3 Pts / 70%

- **Autobrake function only**

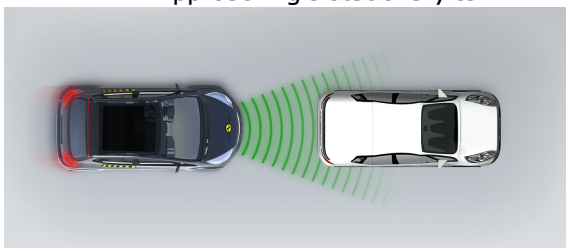
Test car turns across the path of an approaching car



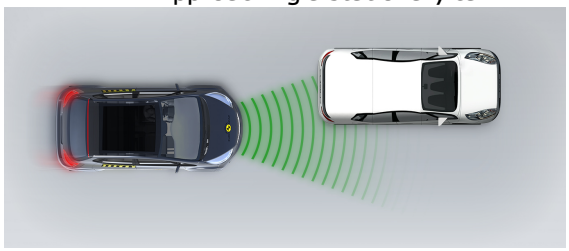
Approaching a stationary car



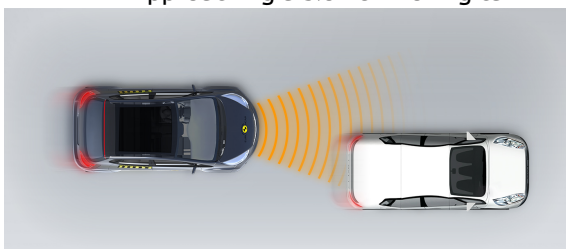
Approaching a stationary car



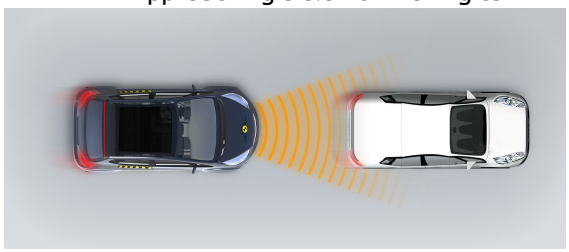
Approaching a stationary car



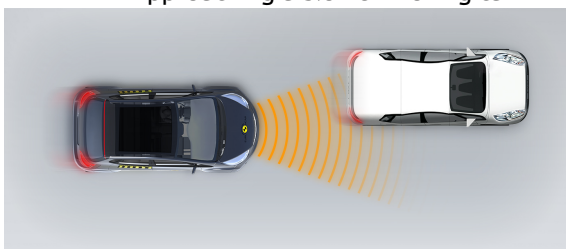
Approaching a slower moving car



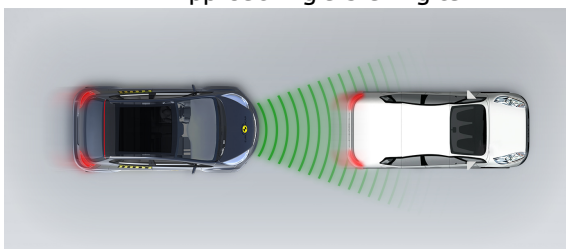
Approaching a slower moving car



Approaching a slower moving car



Approaching a braking car

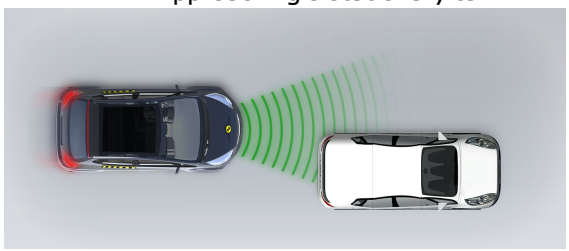


SAFETY ASSIST

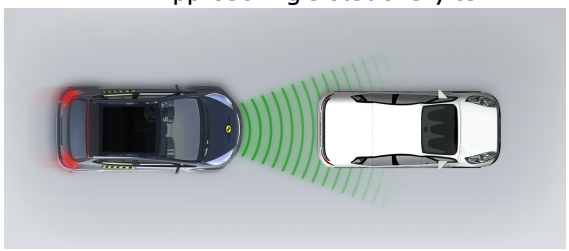
Total 11.3 Pts / 70%

- **Driver reacts to warning**

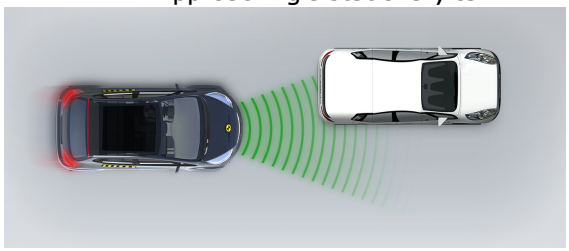
Approaching a stationary car



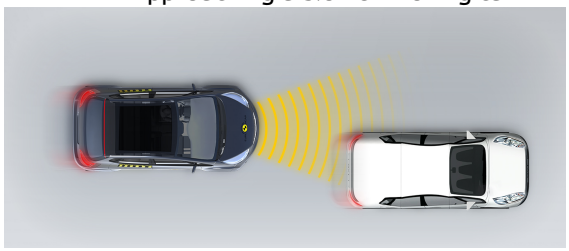
Approaching a stationary car



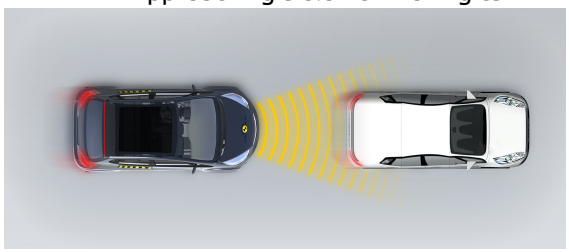
Approaching a stationary car



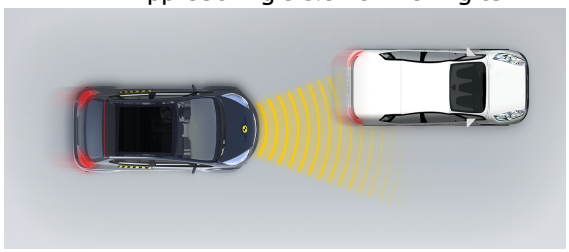
Approaching a slower moving car



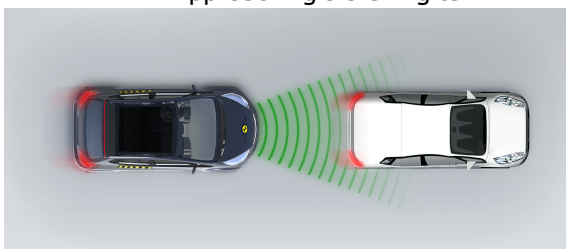
Approaching a slower moving car



Approaching a slower moving car



Approaching a braking car



SAFETY ASSIST

Total 11.3 Pts / 70%

Comments

A seatbelt reminder is standard for the front and rear seats. A driver monitoring system monitors steering inputs for signs of fatigued driving. The autonomous emergency braking system showed only marginal performance in tests of its reaction to other vehicles. A more advanced AEB system is available as an option which protects against other types of accidents, but that system is not included in this assessment. Speed assistance is provided by a system which informs the driver of the local limit, and which can automatically set the speed limiter to the appropriate speed. A lane support system gently corrects the course of a car which is drifting out of lane and also intervenes in more critical situations.

RATING VALIDITY

Variants of Model Range

Body Type	Engine	Drivetrain	Rating Applies	
			LHD	RHD
5 door SUV	1.6 T-GDI	4 x 2 4 x 4	✓	✓
5 door SUV	1.6 T-GDI 48V MHEV	4 x 2 4 x 4	✓	✓
5 door SUV	1.6 T-GDI HEV	4 x 2 4 x 4*	✓	✓
5 door SUV	1.6 T-GDI PHEV	4 x 4	✓	✓
5 door SUV	1.6 CRDi	4 x 2	✓	✓
5 door SUV	1.6 CRDi 48V MHEV	4 x 2 4 x 4	✓	✓

* Tested variant

Annual Reviews and Facelifts

Date	Event	Outcome	
October 2021	Rating Published	2021 ★★★★★	✓