

ANCAP Safety Rating: TOYOTA HILUX RUGGED & RUGGED X (April 2018 – July 2022)



TOYOTA HILUX RUGGED X

This ANCAP safety rating applies to:

Make / Model	Toyota Hilux
Year Range	April 2018 – July 2022
Variant(s)*	Rugged & Rugged X variants only
Vehicle Type	Utility

This ANCAP rating applies to all Toyota Hilux Rugged & Rugged X variants available from April 2018 and is based on testing of the Toyota Hilux dual cab 4x4 tested in 2015.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Electronic Brake Distribution (EBD) and Emergency Brake Assist (EBA) are also standard. Advanced seat belt reminders are fitted to all fixed seats. Upper anchorages for child restraints are fitted to outboard rear seats of dual cab variants. These have a webbing loop top-tether routing device. Check the owner's manual for instructions.

Injury Outcomes.

Frontal Offset

Driver

Passenger



Side Impact & Pole#



Whiplash Protection

Driver



GOOD	GOOD
ACCEPTABLE	ACCEPTABLE
MARGINAL	MARGINAL
POOR	POOR

Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Frontal Offset Test	13.45 (out of 16)
Side Impact Test	16.00 (out of 16)
Pole Test	2 (out of 2)
Whiplash Protection	Good
Pedestrian Protection	Marginal
ESC	Standard
Seat Belt Reminders	3.0 (out of 3)
Overall Score	34.45 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year^	2015

Occupant Protection.

Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	3.00 points
Chest:	4.00 points
Upper legs:	4.00 points
Lower legs:	2.45 points

The passenger compartment held its shape well in the offset test. Pedal and steering wheel displacements were well controlled. The driver's head made contact with the steering wheel through the airbag. 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

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the test vehicle. Experience shows that large vehicles like the Hilux can be expected to perform well in this test. ANCAP has adopted a policy of awarding these types of vehicles a default score of 16 points (out of 16).

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

Head protection only.

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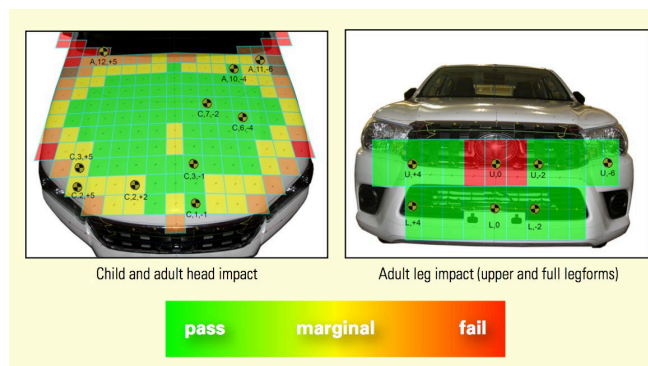
Pedestrian Protection.

Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 19.55 points
Upper leg impacts: 4.62 points
Lower leg impacts: 6.00 points

The tested variant scored 30.16 out of 36 points (Good). The pedestrian protection provided by Rugged and Rugged X variants however drops to Marginal. While this is still adequate for a 5 star (2015) ANCAP safety rating, the fitting of rigid metal bullbars does increase the serious injury risk for struck pedestrians, compared to vehicles without the bullbar fitted. (v7)



Score Deductions.

Deductions from frontal offset test scores

Head / neck: Unstable airbag contact for driver: 1 point from head score.
Chest: No deduction
Upper legs: No deduction
Lower legs: No deduction

Deductions from side impact test score

No deductions (default score for high-seat vehicle).

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.

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	X (S*)
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 nd row fixed seats)	S
Airbag - Front (driver)	S
Airbag - Front (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)	X (S*)
Antilock braking system (ABS)	S
Automatic headlights	S
Autonomous emergency braking (AEB) - City	X (S*)
Autonomous emergency braking (AEB) - Interurban	X (S*)
Autonomous emergency braking (AEB) - VRU	X (S*)
Daytime running lights (DRL)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Electronic stop signal (ESS)	S
Emergency brake assist (EBA)	S
Hill launch assist	S
Lane support system (LSS)	X (S*)
Reversing collision avoidance	O (S*)
Top-tether anchorages (double cab only)	S
Trailer stability control	S
Tyre pressure monitoring system (TPMS)	X

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.
* = From July 2019.

**ANCAP**

Safety ★★★★★



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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	
Head				
HIC	607.00	524.00	HIGH-SEAT VEHICLE DEFAULT SCORE AWARDED	
Acceleration (g for 3ms)	63.10	55.90		
Neck				
Shear (kN)				
Tension (kN)				
Extension (Nm)	13.00	13.0		
Chest				
Acceleration (g for 3ms)	-	-		
Compression (mm)	21.52	19.50		
Viscous criterion (m/s)	0.07	0.04		
Abdomen				
Force (kN)	-	-		
Pelvis				
Force (kN)	-	-		
Upper legs				
Femur force left (kN)	1.38	0.18		
Femur force right (kN)	1.04	2.88		
Knee displacement left (mm)		0.04		
Knee displacement right (mm)	0.95	0.75		
Lower legs				
Force left (kN)	2.92	1.70		
Force right (kN)	4.33	1.95		
Index (upper / lower) left	0.41 / 0.31	0.30 / 0.16		
Index (upper / lower) right	0.68 / 0.33	0.34 / 0.36		
Intrusion Measurements*				
Steering column				
Forward (mm)	38			
Downward (mm)	6			
Sideways (mm)	9			
Pedals				
Accelerator - rearward (mm)	73			
Accelerator - downward (mm)	6			
A-Pillar				
Rearward (mm)	-4			

* 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	Hilux Double Cab 4x4 Pick-Up
Tested Vehicle(s) Built	2015
Tested Body Type	Utility
Tested Vehicle Kerb Weight	2090 kg
Tested Vehicle Engine	2.8 litre turbo diesel
Tested By	ANCAP / ASEAN NCAP
Assessed By	ANCAP
Document Created / Revised	September 2015 / July 2019
Rating Published	April 2018