

# ANCAP Safety Rating

## HOLDEN ASTRA HATCH

(November 2016 - onwards)



Holden Astra Hatch

### This ANCAP safety rating applies to:

Make / Model	Holden Astra Hatch
Year Range	November 2016 - onwards
Variant(s)*	R+, RS and RS-V hatch variants
Vehicle Type	Small Car

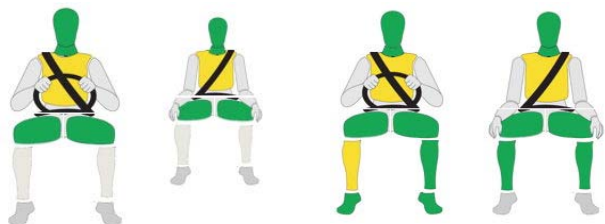
The tested model of Holden Astra hatch was introduced in Australia and New Zealand in November 2016. This ANCAP safety rating is based on tests conducted by Euro NCAP and applies to Astra R+, RS and Astra RS-V hatch variants. Astra R hatch variants are unrated.

Dual frontal, side chest and side head airbags (curtains) are standard. Autonomous emergency braking (AEB) and lane support systems (LSS) are standard on R+, RS and RS-V 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.

#### Full Width Frontal

Driver      Rear Passenger      Driver      Front Passenger



#### Side Impact

Driver



#### Pole

Driver



#### Whiplash Protection

Rear      Front



### Test Results Summary.

<b>Airbags</b>	Dual Frontal, Side, Head
<b>Adult Occupant Protection</b>	86% (32.86 out of 38)
- Full Width Frontal Test	7.45 (out of 8)
- Frontal Offset Test	7.39 (out of 8)
- Side Impact Test#	7.50 (out of 8)
- Pole Test#	8.00 (out of 8)
- Whiplash Protection Test	2.51 (out of 3)
- AEB (City)	0.00 (out of 3)
<b>Child Occupant Protection</b>	84% (41.24 out of 49)
<b>Safety Assist</b>	75% (9.85 out of 13)
- Speed Assistance System	1.33 (out of 3)
- ESC	3.00 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	1.00 (out of 1)
- AEB (Interurban)	1.52 (out of 3)
<b>Pedestrian Protection</b>	83% (30.00 out of 36)
<b>ANCAP Safety Rating</b>	★★★★★
<b>Rating Year^</b>	2015

\* Scaled scores. Total test score out of 16.00 points.

### Adult Occupant Protection.

#### Full Width Frontal Test

Each body region is scored out of 4 points

Driver	Rear Passenger
Head: 4.00 points	Head: 4.00 points
Neck: 4.00 points	Neck: 4.00 points
Chest: 2.90 points	Chest: 2.91 points
Upper legs: 4.00 points	Upper legs: 4.00 points

Protection of the front and rear passengers was good for all critical parts of the body except the chest where protection was acceptable.

#### Frontal Offset Test

Each body region is scored out of 4 points

Driver / Front Passenger (lesser of each)
Head / neck: 4.00 points
Chest: 2.87 points
Upper legs: 4.00 points
Lower legs: 3.91 points

The passenger compartment remained stable. Driver chest and leg protection was acceptable. Passenger chest protection was also acceptable.

#### Side Impact Test

#### Pole Test

Each body region is scored out of 4 points

Head: 4.00 points	Head: 4.00 points
Chest: 4.00 points	Chest: 4.00 points
Abdomen: 4.00 points	Abdomen: 4.00 points
Pelvis: 4.00 points	Pelvis: 4.00 points

Good protection was provided for the driver in the side impact test however the rear door on the struck side became unlatched and the vehicle was penalised.

#### Whiplash Protection

Front / Rear: 1.51 points
Rear: 1.00 points
AEB (City): [Not tested]

AEB City is available as standard on Australasian Astra R+, RS and RS-V variants, however was not tested.

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### Child Occupant Protection.

#### Crash Test Performance

18 month old child: 12.00 points  
3 year old child: 10.24 points

#### Child Safety Features & Child Seat Installation

Safety features: 7.00 points  
Installation check: 12.00 points

**NOTE:** The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit [childcarseats.com.au](http://childcarseats.com.au).

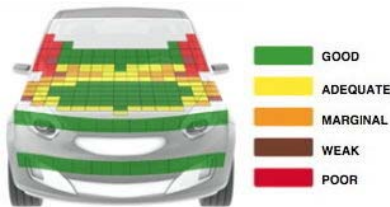
### Pedestrian Protection.

#### Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 18.00 points  
Upper leg impacts: 6.00 points  
Lower leg impacts: 6.00 points

This vehicle scored 30.00 out of 36 points (Good). The bumper scored maximum points for its protection of pedestrians' legs, with good results at all test points. Likewise, the protection provided to the pelvic region was also good. The protection provided by the bonnet to the head of a struck pedestrian was predominantly good, with poor results recorded only on the stiff windscreen pillars. (Tested by Euro NCAP v8.0)



### Score Deductions.

#### Deductions from full width frontal test scores

Neck: No deductions  
Head: No deductions  
Chest: No deductions  
Upper legs: No deductions

#### Deductions from frontal offset test scores

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

#### Deductions from side impact test score

Head / neck: -1.00 point (rear door became unlatched)  
Chest: No deductions  
Abdomen: No deductions  
Pelvis: 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
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	S
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S
Airbag - Knee (driver)	X
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	V
Adaptive front lighting systems	V
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	O
- Interurban	O
- Vulnerable road user	X
Automatic headlights	S
Automatic high beam	V
Blind spot monitoring (BSM)	O
Electronic brakeforce distribution (EBD)	S
Electronic data recorder (EDR)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal (ESS)	S
Following distance warning	O
Lane support system (LSS)	O
Daytime running lights (DRL)	S
Hill launch assist	S
Rain sensing windscreen wipers	O
Reversing collision avoidance	S
Speed assistance – automatic / intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting / warning	S
Speed assistance - speed limit sign recognition / map	X
Tyre pressure monitoring system (TPMS)	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.

**E** = Available in Europe / USA but not available on any Australasian variant.

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

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### Safety Assist.

#### Speed Assistance System (SAS)

Scored 1.3 out of 3 points

Speed limit information function:	Not available
Speed assistance limiter & warning (manual):	1.33
Speed assistance (automatic / intelligent):	Not available

#### Electronic Stability Control (ESC)

Scored 3.0 out of 3 points

#### AEB (Interurban)

Scored 1.52 out of 3 points

Autonomous emergency braking (AEB):	0.45 out of 1.5
Forward collision warning (FCW):	0.69 out of 1.0
Human machine interface (HMI):	0.38 out of 0.5

#### Seat Belt Reminder (SBR)

Scored 3.0 out of 3 points

Driver and passenger:	Pass
Rear:	Pass

#### Lane Support Systems (LSS)

Scored 1.0 out of 1 point

Type: Lane departure warning with lane keep assist

#### Safety Assist Comment

Australasian models have braking system differences that result in slightly different AEB performance. ANCAP was provided with information to show that the results are comparable and the overall rating unchanged.

#### Approaching a stationary vehicle:

14.17 out of 18.00 points for Forward Collision Warning (FCW)



#### Approaching a slow moving vehicle:

4.47 out of 11.00 points for Autonomous Emergency Braking (AEB), 3.18 out of 11.00 points for FCW



#### Approaching a braking vehicle with short headway:

0.38 out of 2.00 points for AEB, 1.18 out of 2.00 points for FCW



#### Approaching a braking vehicle with long headway:

0.38 out of 2.00 points for AEB, 2.00 out of 2.00 points for FCW



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### Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
<b>Head</b>						
HIC	163.00	181.00	239.00	266.00	78.00	232.21
Acceleration (g for 3ms)	41.90	44.30	51.60	52.30	32.30	50.03
<b>Neck</b>						
Shear (kN)	0.74	0.36	0.43	0.82	-	-
Tension (kN)	1.10	0.64	1.11	1.61	-	-
Extension (Nm)	6.80	13.70	30.20	30.10	-	-
<b>Chest</b>						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	27.64	27.34	24.61	24.57	20.41	23.40
Viscous criterion (m/s)	0.08	0.08	0.17	0.21	0.12	0.20
<b>Abdomen</b>						
Compression (mm)	-	-	-	-	17.66	21.59
<b>Pelvis</b>						
Force (kN)	-	-	-	-	0.86	-
<b>Upper legs</b>						
Femur force left (kN)	0.11	0.04	0.10	0.13	-	-
Femur force right (kN)	0.04	0.02	0.08	0.15	-	-
Knee displacement left (mm)	0.01	0.13	0.13	0.67	-	-
Knee displacement right (mm)	0.13	0.39	0.41	1.12	-	-
<b>Lower legs</b>						
Force left (kN)	1.86	1.20	-	-	-	-
Force right (kN)	1.14	0.46	-	-	-	-
Index (upper / lower) left	0.33 / 0.21	0.29 / 0.19	-	-	-	-
Index (upper / lower) right	0.42 / 0.25	0.24 / 0.08	-	-	-	-
<b>Intrusion Measurements</b>						
<b>Steering column</b>						
Forward (mm)	76	-	-	-	-	-
Downward (mm)	34	-	-	-	-	-
Sideways (mm)	0	-	-	-	-	-
<b>Pedals</b>						
Brake - rearward (mm)	7	-	-	-	-	-
Accelerator - upward (mm)	0	-	-	-	-	-
<b>A-Pillar</b>						
Rearward (mm)	0.00	-	-	-	-	-

\* **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	Opel Astra 'Enjoy' LHD
Tested Vehicle(s) Built	2015
Tested Body Type	5 door hatch
Tested Vehicle Kerb Weight	1240 kg
Tested Vehicle Engine	1.4 litre
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	astral6a_rev
Document Created / Revised	7 November 2016 / 31 January 2017
Rating Published	November 2016
Rating Updated	31 January 2017



Frontal offset test at 64km/h