

ANCAP Safety Rating

HOLDEN ASTRA HATCH

(January 2020 - onwards)



Holden Astra Hatch

This ANCAP safety rating applies to:

| | |
|--------------|------------------------|
| Make / Model | Holden Astra Hatch |
| Year Range | October 2019 - onwards |
| Variants* | All hatch variants |
| Vehicle Type | Small Car |

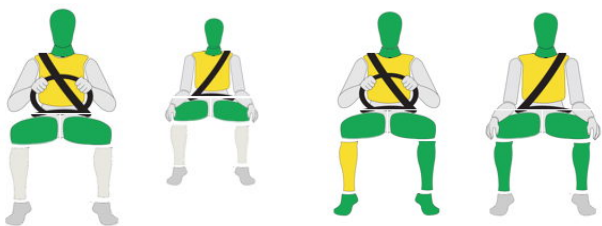
The tested model of Holden Astra hatch was introduced in Australia and New Zealand in November 2016. This ANCAP safety rating is based on tests conducted by Euro NCAP and applies to all MY20 Astra hatch variants built from 7 October 2019 and on sale from 21 January 2020.

Dual frontal, side chest and side head airbags (curtains) are standard. Autonomous emergency braking (AEB) and lane support systems (LSS) are standard on all MY20 hatch 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.

| | |
|----------------------------------|--------------------------|
| Airbags | Dual Frontal, Side, Head |
| Adult Occupant Protection | 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) |
| Child Occupant Protection | 84% (41.24 out of 49) |
| Safety Assist | 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) |
| Pedestrian Protection | 83% (30.00 out of 36) |
| ANCAP Safety Rating | ★★★★★ |
| Rating Year[^] | 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 MY20 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.

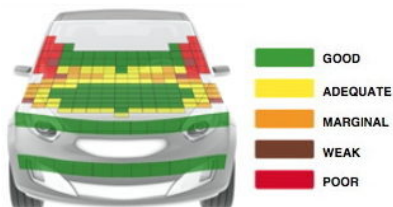
Pedestrian Protection.

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.

| 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 nd row seats) | S |
| Airbag - Frontal (driver) | S |
| Airbag - Frontal (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) | 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 | S |
| - Interurban | S |
| - 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 | S |
| Lane support system (LSS) | S |
| Daytime running lights (DRL) | S |
| Hill launch assist | S |
| Rain sensing windscreen wipers | S |
| 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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ANCAP
Safety ★★★★★



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 |
| Head | | | | | | |
| 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 |
| Neck | | | | | | |
| 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 | - | - |
| Chest | | | | | | |
| 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 |
| Abdomen | | | | | | |
| Compression (mm) | - | - | - | - | 17.66 | 21.59 |
| Pelvis | | | | | | |
| Force (kN) | - | - | - | - | 0.86 | - |
| Upper legs | | | | | | |
| 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 | - | - |
| Lower legs | | | | | | |
| 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 | - | - | - | - |
| Intrusion Measurements | | | | | | |
| Steering column | | | | | | |
| Forward (mm) | 76 | - | - | - | - | - |
| Downward (mm) | 34 | - | - | - | - | - |
| Sideways (mm) | 0 | - | - | - | - | - |
| Pedals | | | | | | |
| Brake - rearward (mm) | 7 | - | - | - | - | - |
| Accelerator - upward (mm) | 0 | - | - | - | - | - |
| A-Pillar | | | | | | |
| 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 Created / Revised | January 2020 |
| Rating Published | November 2016 |
| Rating Updated | January 2020 |



Frontal offset test at 64km/h