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PRODUCT INFORMATION

2014 JH Cruze Sedan and Hatch

Holden Development

Holden's Series II Cruze sedan began production at Holden Vehicle Operations, Elizabeth in March 2011. It was followed by the introduction of a five-door hatchback model in November that year.

Since that time, the locally produced Cruze has established itself as a consistently strong selling model, rounding out 2012 as the fifth best-selling passenger car for the year.

Three engine variants were offered for Series II Cruze at launch, a fuel-efficient 1.4l iTi petrol engine, 1.8l petrol, and 2.0l turbo diesel engine.

MY14 Holden Cruze introduces an additional engine option, a 1.6 litre turbo petrol engine which is standard in the SRi and SRi-V sport models.

MY14 also adds a new second generation six-speed automatic transmission and two new locally-developed suspension tunes – a comfort setting and sports tune.

New Cruze also sees the introduction of Holden MyLink – a new premium infotainment solution which is standard across the range.

Holden Cruze Sedan and Hatch

- **Configuration:** Four-door sedan and five door hatchback

Models

- Cruze Equipe:
 - 1.8L petrol, 5-speed manual/6-speed automatic
 - 1.4 petrol, 6-speed automatic
 - 2.0L diesel, 6-speed automatic
- Cruze CDX (sedan only):
 - 1.8L petrol, 6-speed automatic
 - 2.0L diesel, 6-speed automatic
- Cruze SRi/ SRi-V
 - 1.6L turbo petrol, 6-speed manual/6-speed automatic

Dimensions

	Sedan	Hatch
Length	4590mm	4518mm
Width (excluding mirrors)	1797mm	1797mm
Height	1477mm	1477mm
Wheelbase	2685mm	2685mm
Front Track	1539mm (17" petrol)	1539mm (17" petrol)
	1535mm (17" diesel and petrol SRi)	1535mm (17" diesel and petrol SRi)
	1533mm (18" petrol)	1533mm (18" petrol)
Rear Track	1561mm (17" petrol)	1561mm (17" petrol)
	1557mm (17" diesel and petrol SRi)	1557mm (17" diesel and petrol SRi)
	1553mm (18" petrol)	1553mm (18" petrol)
Leg / shoulder / head room (front)	1074mm / 1391mm / 991mm	1074mm / 1391mm / 991mm
Leg / shoulder / head room (rear)	917mm / 1370mm / 963mm	917mm / 1370mm / 975mm
Boot volume* (with tyre sealant and air compressor kit)* to parcel shelf level	445 litres (rear seats up); 1254 litres (rear seats down)	413 litres (rear seats up); 1254 litres (rear seats down)

Engines

- 1.6 litre DOHC 16-valve 4-cylinder turbo petrol ***new***
Power: 132kW @ 5500 rpm
Torque: 230Nm @ 2200 rpm
- 1.4 litre DOHC 16-valve 4-cylinder turbo petrol
Power: 103kW @ 4900 rpm
Torque: 200 Nm @ 1850-rpm
- 1.8 litre DOHC 16-valve 4-cylinder ECOTEC petrol
Power: 104kW @ 6300 rpm
Torque: 175Nm @ 3800 rpm
- 2.0 litre SOHC 16-valve 4-cylinder common rail turbo diesel
Power: 120kW @ 3800 rpm
Torque: 360Nm @ 2000rpm

Transmissions

- 5-speed manual transmission (1.8L petrol)

- 6-speed manual transmission (1.6L petrol)
- 6-speed automatic transmission with Active Select (1.8L petrol; 1.4L petrol; 2.0L diesel)
- 6-speed automatic transmission with Active Select and sports mode (1.6L petrol)

The 6-speed manual transmission is manufactured in Aspern, Austria; the 5-speed manual transmission is manufactured in Gunsan, South Korea; the 6-speed Gen 2 automatic transmission is manufactured in Boryeong, South Korea.

Fuel economy (ADR 81/01)

Fuel economy - Cruze sedan and hatch			Litres per 100km			
Engine	Fuel	Trans	Equipe	CDX	SRi	SRi-V
1.4L	Petrol	Auto	6.8L	-	-	-
2.0L	Diesel	Auto	6.7L	6.7L	-	-
1.8L	Petrol	Auto	7.4L	7.4L	-	-
1.8L	Petrol	Man	7.0L	7.0L	-	-
1.6L	Petrol	Auto	-	-	7.9L	7.9L
1.6L	Petrol	Man	-	-	7.4L	7.4L

Emissions

1.4 litre petrol, 1.6 litre petrol, 1.8 litre petrol and 2.0 litre diesel engines comply with ADR79/02

Emissions – sedan and hatch			Grams per kilometre of CO2			
Engine	Fuel	Trans	Equipe	CDX	SRi	SRi-V
1.4L	Petrol	Auto	160g	-	-	-
2.0L	Diesel	Auto	176g	176g	-	-
1.8L	Petrol	Auto	176g	176g	-	-
1.8L	Petrol	Man	165g	165g	-	-
1.6L	Petrol	Auto	-	-	175g	175g
1.6L	Petrol	Man	-	-	186g	186g

Green Vehicle Guide Scores

- 1.4L petrol automatic: 4.5 GVG rating
- 1.8L petrol manual: 4.5 GVG rating
- 1.8L petrol automatic: 4.5 GVG rating
- 1.6L petrol manual: 4.0 GVG rating
- 1.6L petrol automatic: 4.0 GVG rating
- 2.0L diesel automatic: 3.5 GVG rating

Engine Feature Highlights

new 1.6 litre DOHC 16-valve 4-cylinder turbo petrol (sourced from Szentgotthard, Hungary)

The 1.6 turbo features premium design elements that give it world-class smoothness and durability, including:

- Low-mass hollow-frame cast iron block
- Dual overhead camshafts
- Chain-driven cams
- Roller-finger camshaft followers
- Piston-cooling oil jets and integrated oil cooler
- Variable-flow oil pump
- Electronically controlled thermostat

The turbocharger is integrated within the exhaust manifold for reduced weight and greater packaging flexibility. A reinforced crankshaft and stronger connecting rods deliver additional strength to support pressurised power and torque over a wide rpm band. Numerous mass-reducing features include a cast iron block with a hollow frame structure, hollow-cast camshafts and a plastic intake manifold.

1.4 litre DOHC 16-valve 4-cylinder turbo petrol (sourced from Aspern, Austria)

The 1.4 iTi turbo features premium design elements that give it world-class smoothness and durability, including:

- Low-mass hollow-frame cast iron block
- Dual overhead camshafts with variable valve timing
- Chain-driven cams
- Roller-finger camshaft followers
- Piston-cooling oil jets and integrated oil cooler
- Variable-flow oil pump
- Electronically controlled thermostat

The turbocharger is integrated within the exhaust manifold for reduced weight and greater packaging flexibility. A reinforced crankshaft and stronger connecting rods deliver additional strength to support pressurised power and torque over a wide rpm band. Numerous mass-reducing features include a cast iron block with a hollow frame structure, hollow-cast camshafts and a plastic intake manifold.

1.8L DOHC 16-valve 4 cylinder ECOTEC petrol (sourced from Gunsan, South Korea)

The naturally aspirated 1.8L engine shares many 1.4L turbo features. Compact and durable, it combines competitive performance with sophisticated technologies.

Highlights include:

- Structural, lightweight (hollow-frame) cast iron cylinder block
- Dual-overhead camshaft configuration with four valves per cylinder
- Dual continuously variable camshaft phasing
- Variable intake manifold
- Lightweight direct-acting mechanical tappets with reduced friction
- Hollow-cast camshafts
- Oil-water heat exchanger
- Piston-cooling oil jets
- Electronically controlled cooling system
- Extended-life coolant
- Long life spark plugs

The two-stage variable intake manifold optimises fuel economy and performance. At engine speeds below 4,000rpm, inlet air passes through 910mm intake tracts that help increase torque. At speeds greater than 4,000rpm, a rotary sleeve within the lightweight composite intake manifold closes off the full length of the intake tracts, forcing air through a shorter, 260mm path that helps build power.

The rotary sleeve helps minimise airflow resistance at higher speeds, ensuring the maximum cross-section area in the open position. The cross section of the intake runners is constant, with the length of the runners reduced by 60 per cent in the closed position (greater than 4,000 rpm). This two-stage manifold helps the 1.8L produce approximately 90 per cent of peak torque from 2,400rpm to 6,500rpm, giving it a strong, responsive feel in all driving conditions.

2.0 litre turbo diesel engine - feature highlights (sourced from Gunsan, South Korea)

The 2.0 litre turbo diesel engine is a powerful and fuel-efficient diesel offering. Highlights include:

- An advanced, electronically controlled turbocharger with intercooler that enables smooth driving, lower fuel economy and lower emissions.
- A high-pressure common rail system that delivers multiple injection performance and optimized injection quality within the combustion chamber. This ensures reduced combustion noise, fuel economy and reduced emissions.
- A diesel particulate filter system that's maintenance-free for the life of the vehicle.

Sports Suspension (SRi, SRi-V)

The Cruze SRi and SRi-V features a locally-tuned, unique-for-Australia sports suspension incorporating a Watts Link.

The sports tune for MY14 Cruze is based on 2 new locally tuned Bridgestone Potenza sport tyres. A 17" for the SRi and an 18" for the SRi-V.

The tune incorporates;

- A stiffer rear twist beam to better optimise mid corner grip and balance.
- Stiffer and lower springs than on other models in line with the sports tune, lowered to account for the larger sports tyres.
- An internal rebound spring in the front strut providing crisper steering response, increased roll stiffness and aids vertical motion control.
- Strut and shock tune to achieve the performance target of this vehicle.
- A shorter rear shock bump stop to preserve rear suspension travel, mostly needed for when the car is laden.

The compound crank rear axle provides packaging and mass benefits as well as superior wheel camber stiffness.

Carried on a small cross-member attached to the underbody, the Watt's link sits just behind the rear-wheel centre line and attracts cornering thrust from the tyres with minimal deflection. This further reduces vehicle response time and helps provide crisp steering response.

Electric Power Steering (1.4L and 1.6L)

Compared to the constant power demand of a hydraulic power steering pump, electric power

steering only demands power from the electrical system when steering input is required. Resultant fuel economy savings are due to a lower ancillary power draw from the engine.

The electric power steering system also allows for greater flexibility with tuning, easily enabling varied steering efforts according to vehicle speed.

The electric power steering has been globally retuned, offering more road feel.

Technical Data Overview

- Drive axle: Front wheel drive
- Turning circle: 10.9 metres
- Fuel tank capacity: 60 litres

Compression Ratio:

- 1.4 litre petrol - 9.5:1
- 1.8 litre petrol - 10.5:1
- 2.0 litre diesel - 16:3:1
- 1.6 litre petrol - 8.8:1

Suspension:

- (1.4L 1.8L and 2.0L): Front - Independent MacPherson strut
Rear - Compound crank
- (1.6L): Front - Independent MacPherson strut
Rear – Sports suspension incorporating Watts Link

Steering:

- Hydraulic power steering (1.8L & 2.0L)
- Electric power steering (1.4L and 1.6L)

Brakes:

- 1.4L and 1.8L 276mm front ventilated discs; 268mm rear solid discs
- 1.6L and 2.0L Diesel 300mm front ventilated discs; 292mm rear solid discs
- Electronic Stability Control (ESC) Four channel, four sensor ABS, EBD, TCS

Towing:

- Petrol - 695kg (unbraked) / 1200kg (braked)
- Diesel - 750kg (unbraked) / 1200kg (braked)

Wheels and tyres:

- Equipe & CDX (petrol) 17" x 7" alloy wheels; 215/50R-17-91V tyres (4)
- Equipe & CDX (diesel)/ SRi 17" x 7" alloy wheels; 225/50R-17-94V tyres (4)
- SRiV 18" x 8" alloy wheels; 235/45R18-94W tyres (4)

Transmissions

Five- and six-speed manual transmissions feature:

- One-piece housing to enable compact, light design
- Needle bearings for all gears ensure low-friction gear meshing

- Enhanced low-gear engagement for smooth launch and shift characteristics

Six-speed Active Select automatic transmission is optional across the range, sport mode available on 1.6L only. The 1.8L petrol engine is matched with a 6T30 unit; 1.4 iTi turbo petrol engine with 6T40 unit; 1.6 turbo petrol and 2.0L diesel with 6T45 unit. Features of the second generation auto trans (all auto powertrain except 2.0L Diesel) include:

- Clutch-to-clutch shift operation for precise, smoother shifts between gears
- Wide spread ratio – first gear has brisk acceleration with its high ratio, 6th gear overdrive ratio keeps engine revolutions as low as possible for fuel-efficient highway cruising
- All have ‘tap-up/tap-down’ Active Select feature which allows drivers to select and hold gears for a more spirited driving experience
- Sport mode enabled on 1.6L turbo petrol features performance mode lift foot (PMLF)
- PMLF detects when the driver demands more performance from the vehicle while taking a curve and automatically drops the transmission to a lower gear to improve acceleration out of the corner.
- It minimises unneeded shifting and allows the driver to focus on the road and enjoy the drive.
- When the driver selects “Sport” mode and begins negotiating curves with sufficient cornering lateral force, the transmission computer commands downshifts to ensure the right gear is readily available. The lower gears aid in both braking into and maintaining control through the corner, and then accelerating out of the corner.
- With continued high-throttle driving and aggressive braking, the transmission will maintain the lower gears to assist in acceleration and in preparing for the next corner. When more moderate driving conditions are detected – lower acceleration and cornering – the transmission will upshift sequentially through the gears, and exit PMLF mode.

Gear ratios - Automatic transmissions

(all six-speed transverse, electronically controlled, automatic overdrive transmission)

Type:	6T30 Hydra-Matic. 1.8L petrol	6T40 Hydra-Matic. 1.4L turbo petrol	6T45 Hydra-Matic. 2.0L diesel	6T45 Hydra-Matic. 1.6L turbo petrol
Gear Ratios				
First	4.449	4.584	4.584	4.584
Second	2.908	2.964	2.964	2.964
Third	1.893	1.912	1.912	1.912
Fourth	1.446	1.446	1.446	1.446
Fifth	1.000	1.000	1.000	1.000
Sixth	0.742	0.746	0.746	0.746
Reverse	2.871	2.940	2.940	2.940
Final drive ratio	3.720:1	3.230:1	2.640:1	3.530:1

Manual Transmissions

Type:	D16 – Fully synchronized 6-speed manual	MZ0 – Fully synchronized 6-speed manual –
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	- 1.8L petrol	1.6L turbo petrol
Gear Ratios		
First	3.81	3.818
Second	2.15	2.158
Third	1.48	1.475
Fourth	1.12	1.067
Fifth	0.88	0.875
Sixth	-	0.744
Reverse	3.54	3.545
Final drive ratio	3.940:1	3.940:1

Kerb weights

Cruze Sedan			Specification in kg			
Engine	Fuel	Trans	CDX	Equipe	SRi	SRi-V
1.4L	Petrol	Auto	-	1426	-	-
2.0L	Diesel	Auto	1569	1563	-	-
1.8L	Petrol	Auto	1409	1492	-	-
1.8L	Petrol	Man	1389	1389	-	-
1.6L	Petrol	Auto	-	-	1479	1493
1.6L	Petrol	Man	-	-	1450	1465
Cruze Hatch			Specification in kg			
Engine	Fuel	Trans	CDX	Equipe	SRi	SRi-V
1.4L	Petrol	Auto	-	1438	-	-
2.0L	Diesel	Auto	-	1575	-	-
1.8L	Petrol	Auto	-	1415	-	-
1.8L	Petrol	Man	-	1391	-	-
1.6L	Petrol	Auto	-	-	1474	1503
1.6L	Petrol	Man	-	-	1460	1474

MyLink – Infotainment system

Every MY14 Cruze sedan and hatchback model now features Holden's premium MyLink Infotainment system as standard.

Holden MyLink is app-enabled in-car technology and is offered for the first time in a locally made car.

In the Holden Cruze, MyLink features:

- 7" full colour touch screen
- AM/FM radio
- In-dash CD player
- Audio streaming via Bluetooth (compatible devices)
- Phone integration
- Phone book support
- Pandora and Stitcher apps (compatible with iOS and Android devices, data streams via the phone's 3G connection)
- Voice recognition*
- Siri Eyes Free Integration*

Cruze SRi-V adds

- Satellite Navigation*

*The system is currently being developed in tandem with the VF Commodore MyLink system and is slated for introduction mid-year.

Safety

Occupant safety was an overriding objective when developing Cruze, achieving a maximum 5-star ANCAP (Australian New Car Assessment Program) rating in Australia. Cruze incorporates a host of structural enhancements as well as a full range of active and passive safety systems standard across the range all designed to place it among the safest vehicles in its class.

Cruze offers an impressive level of standard safety including:

- Electronic Stability Control (ESC)
- Anti-lock Braking System (ABS)
- Electronic Brakeforce Distribution (EBD)
- Traction Control (TC)
- Brake Assist
- 6 airbags (driver, front passenger, front side and curtain)
- Collapsible pedal release system
- Driver and front passenger seatbelt reminder
- Four-way adjustable headrests for whiplash protection
- Three-point seatbelts in all five seating positions
- Seatbelt retractor and lap pre-tensioners in driver and front passenger position
- Front seatbelt load limiters
- Child seat latching system at rear seating positions

Additionally, Cruze CDX and SRi-V models are fitted with a reverse camera as standard.

An extremely strong structure and stiff body with efficient, effective load paths provide Cruze maximum protection in the event of a collision from virtually any direction.

A unibody of high-strength steel incorporates full-length frame rails and a safety cage into a single, welded unit. It is designed with front and rear crush zones engineered to collapse in a controlled manner to help absorb crash energy.

Bumper systems are engineered to require minimal repairs after front or rear collisions. The front bumper is positioned for optimum safety in the event of a collision with another vehicle.

Collapsible pedal release system reduces the chance of lower extremity injuries to the driver in the event of a front collision.

For maximum protection in certain frontal collisions, a 60-litre driver airbag can fully inflate in 60 milliseconds; front passenger airbag can fully inflate to 130 litres in 70 milliseconds. Side airbags are mounted on the driver and front passenger seat for thorax protection of front row occupants.

Curtain airbags are mounted to the roof rails between the A and C pillars for additional head and neck protection of both front and second-row seat occupants. Standard three-point lap and shoulder belts available for all passengers suit a wide range of physiques.

Two side impact sensors mounted in the B pillars on both sides of Cruze trigger the side curtain roof rail air bags, seat-mounted thorax air bags and seatbelt pre-tensioners.

Cargo/Storage

Centre console incorporates CD storage beneath a fore/aft articulating armrest with an MP3 player “plug and play” auxiliary input plug.

The lower IP storage contains an auxiliary power outlet and a sliding dual cup holder design that uses automatically adjusting pincher elements to carry any cup size.

A 6.3 centimetre deep bin in the IP is located at the top of the centre stack. Illuminated, lockable glove box provides additional storage space and integrated bottle holders in all door pockets provide added beverage storage.

Seatback pockets are large enough to carry books, road atlases or thin laptops. The 60/40 split-folding rear seatbacks fold flat to provide a large and versatile station wagon-like load space.

Rear split-seat folding capability includes an articulating armrest with integrated dual cup holders.

An acoustically trimmed, illuminated luggage space provides 445 litres of storage in the sedan and 413 litres in the hatch with the rear seats in use and a 1254 litre capacity behind the front seats when the seat backs are folded down (with tyre inflator kit installed).

Convenience

Standard six-way manually adjustable driver and front-passenger seats. Front heated seats (standard on CDX and SRi-V) offer three levels of heated comfort - low, medium and high. They are designed for quick warm-up and use an electronically controlled heat pad integrated into the seat cushion and back.

Standard front and rear power windows with:

- Express down and up for driver
- Express down for front and rear passengers.

Standard power door locks are automatic and programmable. Delayed entry and exit interior

lighting (with theatre dimming) provides added convenience using rear courtesy lights and front map lights (located in overhead console). Follow me home lighting allows programmable timing of up to three minutes which enable front headlamps to remain on after exit and locking of vehicle.

Padded driver and front passenger visors (with ticket holder) and vanity mirrors provide added convenience. An overhead console with front map lights is standard. Overhead assist grips are located on the front-passenger door and rear doors while convenience hooks can be found in the rear.

An auxiliary power outlet in the lower IP is standard on all models and can be used with laptops and mobile phones. A second auxiliary power outlet on CDX and SRi models is located in the 2nd row below the centre console. Retained accessory power enables the power windows, radio to remain operational for ten minutes after the ignition is turned off, or until a door is opened.

Servicing

As with all Holden models, Cruze benefits from capped price servicing up to four standard scheduled services (as specified in the Service Warranty Booklet) for the first three years or 60,000Kms, whichever comes first.

Petrol models - \$185, Diesel models - \$335

Place of Manufacture

Holden Vehicle Operations, Elizabeth, South Australia

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