

### Inside this manual:

- Routine maintenance
- Tune-up procedures
- Engine repair
- Cooling and heating
- Air conditioning
- Fuel and exhaust
- Emissions control
- Ignition
- Brakes
- Suspension and steering
- Electrical systems
- Wiring diagrams



28-32

Chapter 2 Part B: 2.0L V6 engine



**Check the timing belt**  
The timing belt is a critical component of the engine. It is responsible for synchronizing the rotation of the crankshaft and the camshaft. If the timing belt fails, the engine will stop running and may suffer severe damage.



**Adjust the valve clearance**  
The valve clearance is the gap between the valve stem and the valve rocker arm. It is important to adjust the valve clearance correctly to ensure proper engine operation.

**Check the oil level**  
The oil level is a critical component of the engine. It is important to check the oil level regularly to ensure proper engine operation. If the oil level is low, the engine may suffer damage.

**Check the water level**  
The water level is a critical component of the engine. It is important to check the water level regularly to ensure proper engine operation. If the water level is low, the engine may suffer damage.



**Check the air filter**  
The air filter is a critical component of the engine. It is important to check the air filter regularly to ensure proper engine operation. If the air filter is dirty, the engine may suffer damage.

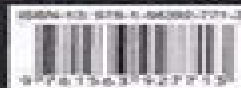


**Check the battery**  
The battery is a critical component of the engine. It is important to check the battery regularly to ensure proper engine operation. If the battery is dead, the engine may not start.



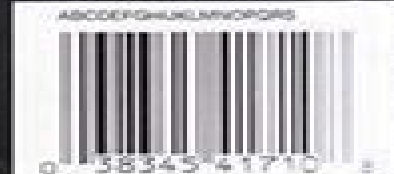
**Check the alternator**  
The alternator is a critical component of the engine. It is important to check the alternator regularly to ensure proper engine operation. If the alternator is faulty, the engine may not have enough power to run.

- **Step-by-step procedures** linked to hundreds of **easy-to-follow photos** and illustrations
- **Complete troubleshooting section** helps identify specific problems
- Written from **hands-on experience** based on a vehicle teardown using **commonly available tools**
- Haynes tips give **valuable short cuts** to make the job easier and eliminate the need for special tools
- **Notes, Cautions and Warnings** for the home mechanic
- Colour **spark plug diagnosis**
- Easy to use **index**



### Models covered by this manual:

Holden Astra Hatchback, Sedan & Wagon and Zafira MPV models with petrol engines, including special/limited editions. 1.8L and 2.0L petrol engines. 1998 thru 2005  
Does NOT cover bi-fuel models, 1.6L "Twinport" or 2.0L turbo engines, Coupe or Convertible. Does NOT cover AH series introduced Sept. 2004.



# Holden Astra Convertible Work Shop Manual

**General Motors-Holden's Sales Pty.  
Ltd**



## **Holden Astra Convertible Work Shop Manual:**

*Holden Astra & Zafira Automotive Repair Manual* A. K. Legg, Martyn Randall, 2006-01-01      Holden Astra & Zafira A. K. Legg, Martyn Randall, 2009      The New York Times Index ,2002      **The Complete Holden Workshop Manual** ,1968  
**Vauxhall Astra owners workshop manual** Peter G. Strasman, Vauxhall Motors Limited, 1984      **Holden's EH, HD, HR, 1963-1968** Max Ellery, 1990-06-01      *Vauxhall Astra and Belmont Owners Workshop Manual* Matthew Minter, 1988  
**Vauxhall Astra Owners Workshop Manual. Petrol. Oct 1991 to Oct 1992** STEVE. RENDLE, 1994      **Astra LD Series, 1987-1989** Universal Publishers, Unknown Publisher, 1990      Holden 'EK' Workshop Manual General Motors-Holden's Limited, General Motors-Holden's Limited. Service Division, 196?      Holden Workshop Manual ,1952  
**Holden Workshop Manual** ,1960      **Holden EJ' Workshop Manual** General Motors-Holden's Limited. Service Division, 1962      The Complete Holden Workshop Manual ,1967      **Holden workshop manual** General Motors-Holden's Sales Pty. Ltd, 1952      The Complete Holden Workshop Manual, with Specifications, Repair and Maintenance Data Covering Series 1948/53, FJ, FE, FC, FB, EK, EJ, EH, HD, HR, HK. ,1968      **The Complete Holden Workshop Manual, with Specifications, Repair and Maintenance Data Covering Series 1948/53, FJ, FE, FC, FB, EK, EJ, EH, HD.** ,1966  
**Holden 'HB' Series Torana Shop Manual** General Motors-Holden's Sales Pty. Ltd, 1972      Holden 'HK' Workshop Manual ,1985      Holden ,

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