

### 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.



**Check the spark plugs**  
The spark plugs are responsible for igniting the fuel mixture in the combustion chamber. If the spark plugs are worn or fouled, the engine will run poorly and may suffer from misfires.

**Check the oil level**  
The oil level is a critical component of the engine. It is responsible for lubricating the moving parts of the engine. If the oil level is low, the engine will run poorly and may suffer from wear and tear.

**Check the coolant level**  
The coolant level is a critical component of the engine. It is responsible for cooling the engine. If the coolant level is low, the engine will run poorly and may suffer from overheating.



**Check the air filter**  
The air filter is responsible for filtering the air that enters the engine. If the air filter is dirty, the engine will run poorly and may suffer from reduced performance.



**Check the battery**  
The battery is responsible for providing the electrical power to the engine. If the battery is weak or dead, the engine will not start.



**Check the belts**  
The belts are responsible for driving the various components of the engine. If the belts are worn or loose, the engine will run poorly and may suffer from damage.

- **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**

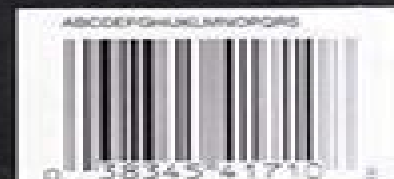


### Models covered by this manual:

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 Workshop Manual

**Patrick Vollmar**



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