

# Holden Astra 2004-2009 Workshop Manual

## Crankshaft and Pistons

Crank mechanism is made more rigid without increasing weight.



Fig. 1.18. Crankshaft and Pistons:  
1 - Mainshaft, 2 - piston, 3 -  
connecting rod, 4 - Crankshaft

In connection with higher power and using a special form of pistons used oil, jet nozzles for cooling the pistons. They are located on the engine block and are aimed at the underside of the piston. The crankshaft has a more rigid structure, without increasing weight. It also uses floating piston pins.

### Cooling of the piston

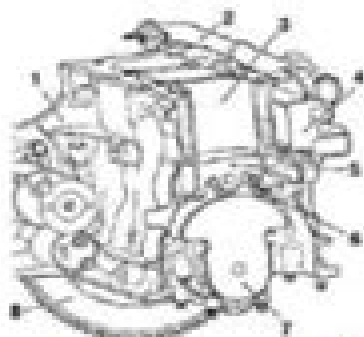


Fig. 1.19. Cooling of the piston: 1 -  
the engine block, 2 - pipe cooling  
system, 3 - cylinder walls, 4 - oil  
cooler 5 - piston, 6 - oil spray  
atomizer, 7 - crankshaft 8 - Flywheel

To new pistons (Fig. 1.20) gasoline engine Z 18 XEP, which must cope with thermal loads, increased due to increased power output, the block is equipped with piston cooling.

## Rear crankshaft oil seal

At petrol engine Z 18 XEP mounted on the rear crankshaft oil seal crankshaft.



Fig. 1.21. Rear crankshaft oil seal  
with the sensor: 1 - rear crankshaft  
oil seal, 2 - encoder, 3 - Crankshaft,  
4 - crankshaft sensor, 5 -  
connecting cable to plug the wiring  
harness of the crankshaft sensor

## 2.3. Removing and installing the power unit

### General and safety by disconnecting power unit

If it was decided to lift the engine, it is necessary to undertake certain



Fig. 1.22. General  
view of the engine Z 18 XEP

If you decide to remove the engine, you will need a flat smooth concrete or asphalt playground. Undoubtedly, the best place is to have a workshop. It is important to have a work platform, as well as a place to store the car. If no workshop, you will need a flat smooth concrete or asphalt playground.

Clearing the engine compartment and the engine before removing the tool will provide clean and continuous operating condition.

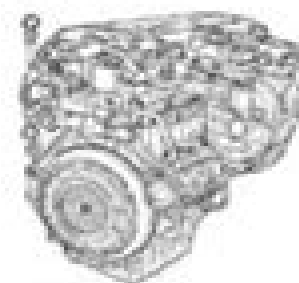


Fig. 1.23. General view of the  
engine Z 18 XEP

Also need the lift or support. Make sure that these devices have a margin of capacity and are able to raise the engine with all the mounted units. Safety measures play a crucial role, since the rise of the motor car - a potentially dangerous operation.



Fig. 1.24. General view of the  
engine Z 18 XEP



# Holden Astra Workshop Manual

**Matthew Minter**



## **Holden Astra Workshop Manual:**

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web april 8 2009 was a wednesday zodiac sign for this date is aries this date was 5 239 days ago april 8th 2024 is on a monday someone born on this date is 14 years old if you were born on this date you ve slept for 1 746 days or 5 years your next birthday is 240 days away you ve been alive for 125 736 hours

**wednesday 8 april 2009 birthday facts you must know** - Oct 06 2022

web jan 22 2023 how old am i if i was born on 8 april 2009 you were born on a wednesday and have been alive for 5 037 days your next birthday will be on saturday after 76 days