

10-10 Every 20 000 miles – diesel models

1 Press the 'Menu' button on the instrument indicator dash with 'Vehicle Information Menu' is displayed in the power information centre.

2 Turn the adjuster wheel on the instrument indicator dash to select 'Maintenance Oil Life'.

3 Turn the 'Enter' panel, then press the

'Enter/Exit' button on the dash to read the value.

4 Turn the 'Enter' panel and switch off the system.

Every 40 000 miles or 2 years

10 Fuel filter removed

1 Remove the glowplug as described in Chapter 11, Section 11.

2 Remove the retaining bracket, then the fuel filter housing cover. Then remove the fuel filter housing (see Refurbishment).

3 Fit the fuel filter using a method of the removal procedure. Make sure that the filter is

flush the correct way up as indicated on the side of the filter.

10 Fuel filter removed

Caution: Before starting any work on the fuel filter, wipe clean the filter assembly and the area around it. It is essential that no dirt or other foreign matter is allowed into the system. Obtain a suitable container

into which the filter can be drained and place bags or similar material under the filter assembly to catch any spillages.

4 The fuel filter is located under the cap attached to the right-hand side of the fuel tank.

5 Remove the front wheels, then jack up the fuel of the fuel and support it vertically on one stand (see Jacking and vehicle support).

6 Loosen the cap nut from the filter housing as described in Section 1.

1.5 and 2.0 litre models

7 When the filter has completely drained, unscrew and remove the filter base (see Refurbishment).

8 Remove the housing ring from the filter housing (see Refurbishment).

9 Using a screw, pull the old filter from the housing (see Refurbishment).

10 Thoroughly clean the filter base and filter housing.

11 Locate the new filter in the housing and push it up until it engages with the retaining cap (see Refurbishment).

12 Fit a new sealing ring to the filter housing (see Refurbishment).

13 Tighten the filter base and tighten it to the



10.24 Remove the retaining bracket and open the fuel filter housing cover.



10.25 ...then remove the filter from the housing.



10.26 Unscrew the fuel filter base.



10.27 ...and remove it from the housing.



10.28 Remove the sealing ring from the filter housing.



10.29 Using a screw, pull the old filter from the housing.



10.30 Locate the new filter in the housing and push it up until it engages with the retaining cap.



10.31 Fit a new sealing ring to the filter housing.

10-10 1.4 litre petrol engine in-car repair procedures



10.32 Locate the vent of pump cover into the side of the valve cover.

see filter with the right-hand nutty secured by the valve rings, facing the valve into the

Refurbishment:

14 Place the outer oil pump cover ring in position on the valve cover.

15 Tighten the top oil pump cover (see Refurbishment).

16 Fit the oil pump side nut to the side oil pump, then add the spring and put in the pump housing using a screwdriver to compress the side nut as shown during removal, and push the side nut and spring into position. Ensure that the flat side of the side nut head is facing toward the top of the timing cover (see Refurbishment).

17 With the oil pump assembled, measure the end-to-end thickness of the various components using a straight edge and feeler gauge (see Refurbishment). Any of the measurements exceed the clearance given in the specifications, a new pump side nut or a new timing cover will be required.

18 If oil is consistently leaking, lubricate the pump internal components with clean engine oil, then add the pump cover (see Refurbishment). Thoroughly tighten the pump cover retaining bolts in a sequence according to the specified torque.

19 Interengage with the crankshaft pulley to the timing cover, engaging the pulley shaft with the oil pump side nut. Tight the outer of the normal direction of rotation to ensure that the pump operates smoothly and the pulley can be turned easily.

20 Fit a new crankshaft oil seal to the timing cover as described in Section 11.

21 Tighten the timing chain and cover to the engine as described in Section 6.

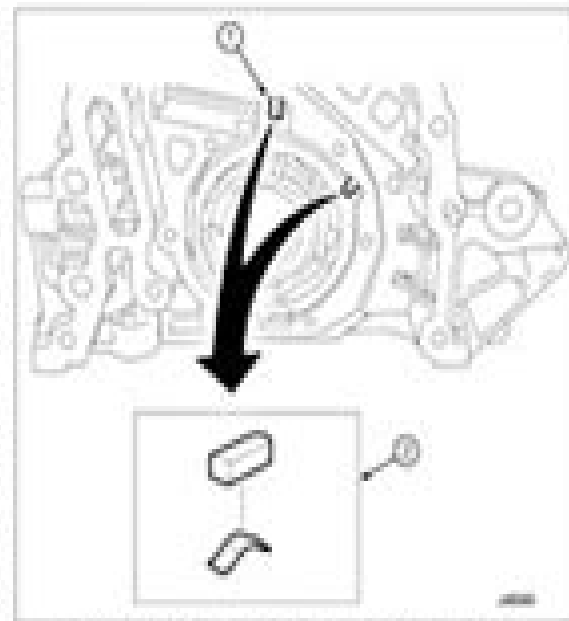
10 Crankshaft oil seals removed

Timing chain and oil seal

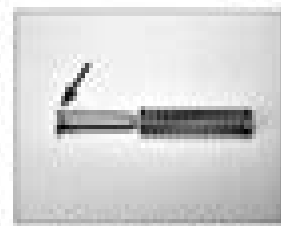
1 Remove the crankshaft pulley as described in Section 6.

2 The seal nut may be carefully ground out with a screwdriver or similar forward tool (see Refurbishment).

3 Clean the oil seal seat with a scraper or plastic scraper.



10.33 Tighten the top oil pump cover (see Refurbishment) and push the side nut and spring (2) into the position shown (1).



10.34 Ensure that the flat side (arrowed) of the oil pump side nut head is facing toward the top of the timing cover.



10.35 Measure the end-to-end thickness.



10.36 ...and add the oil pump side nut with a scraper or plastic scraper.



10.37 Thoroughly lubricate the pump internal components with clean engine oil, then add the pump cover.

Astra Diesel Technical Manual

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Table of Contents Astra Diesel Technical Manual

1. Understanding the eBook Astra Diesel Technical Manual
 - The Rise of Digital Reading Astra Diesel Technical Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Astra Diesel Technical Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astra Diesel Technical Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astra Diesel Technical Manual
 - Personalized Recommendations
 - Astra Diesel Technical Manual User Reviews and Ratings
 - Astra Diesel Technical Manual and Bestseller Lists
5. Accessing Astra Diesel Technical Manual Free and Paid eBooks
 - Astra Diesel Technical Manual Public Domain eBooks
 - Astra Diesel Technical Manual eBook Subscription Services

- Astra Diesel Technical Manual Budget-Friendly Options
- 6. Navigating Astra Diesel Technical Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Astra Diesel Technical Manual Compatibility with Devices
 - Astra Diesel Technical Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astra Diesel Technical Manual
 - Highlighting and Note-Taking Astra Diesel Technical Manual
 - Interactive Elements Astra Diesel Technical Manual
- 8. Staying Engaged with Astra Diesel Technical Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astra Diesel Technical Manual
- 9. Balancing eBooks and Physical Books Astra Diesel Technical Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astra Diesel Technical Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Astra Diesel Technical Manual
 - Setting Reading Goals Astra Diesel Technical Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Astra Diesel Technical Manual
 - Fact-Checking eBook Content of Astra Diesel Technical Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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