

See Illustration 1 the cover is slack, do not move between the cover and carbody fitting using surface – if necessary, gently tap the cover sideways to free it. Remove the panel. If it shows signs of damage or deterioration it must be replaced.

Refitting

6 Check to confirm the cover is the same as the cover for a build-up of at least 10 mm at any other point, and if necessary, cover the cover with a layer of a water-tight sealant. Examine the condition of the rear window ventilation filter inside the carbody cover and clean or replace as described for the rear of the cover. If fitting is easier if done, the filter can be removed from the cover, after removing the securing bolts. Dry the cover thoroughly before refitting.

7 Slide the cover into place and fit the rear of the cover using the bolt and nut to the rear of the carbody housing, allowing the panel to move slightly under the bolt. **See Illustration 2**

8 Tighten the rear mounting bolt, ensuring all relevant components are correctly positioned and tighten them to the specified torque setting in a diagonal sequence.

9 Reconnect the location bracket to the carbody cover and fit the rear cover where applicable.

5 Crankshaft pulley - removal and refitting

Note: A new pulley retaining bolt will be required on refitting.

Removal

1 Firmly secure the handbrake, then park on the level of the car and ensure it is secure on its stands (see Jacking and vehicle support). Remove the right-hand wheel cover.

2 Remove the timing drive belt as described in Chapter 1. First to remove, mark the direction of rotation on the belt to ensure the belt is refitted the same way round.

3 Remove the crankshaft pulley retaining bolt. To prevent crankshaft rotation on manual transmission models, have an assistant secure



4.2 Removing the crankshaft cover from the engine

top gear and apply the parking brake. The automatic transmission models prevent rotation by removing one of the output shafts. Remove the timing belt, and holding the driveplate in the transmission housing using a hold bar, remove the pulley bolts. If the engine is removed from the vehicle it will be necessary to use the transmission support (see Section 10).

4 Unscrew the retaining bolt and washer and remove the crankshaft pulley from the rear of the crankshaft, taking care not to damage the crankshaft cover.

Refitting

5 Refit the crankshaft pulley, aligning the pulley cut-out with the raised notch on the timing belt sprocket, then fit the washer and new retaining bolt. **See Illustration 5**

6 Tighten the crankshaft pulley retaining bolt to the specified torque using a torque wrench. Tighten the bolt through the specified Stage 1 angle, using a socket and extension bar, and finally through the specified Stage 2 angle. It is recommended that an angle measuring gauge is used during the final stage of the tightening to ensure accurate torque. If a gauge is not available, use white spirit to make alignment marks between the bolt head and pulley prior to tightening, the marks can then be used to check that the bolt has been rotated through the correct angle.

7 If necessary, remove the hold bar securing the driveplate in the transmission housing



4.3 Ensure the pulley is correctly located in the crankshaft cover recess (arrowed)

then the timing driveplate as described in Chapter 1 using the hold bar prior to removal to ensure the belt is fitted the correct way round.

8 Refit the headlight then lower the car to the ground and tighten the other bolts to the specified torque.

6 Timing belt covers - removal and refitting

Upper cover

Removal

1 Remove the air cleaner housing as described in Chapter 10.

2 Undo the retaining bolts then undo the timing belt upper cover and remove it from the engine. **See Illustration 6**

Refitting

3 Refitting is the reverse of removal. Tighten the cover retaining bolts to the specified torque.

Lower cover

Removal

4 Remove the crankshaft pulley (see Section 5).

5 With reference to Chapter 10, remove the alternator (alternator bracket removed).

6 Remove the upper cover (see paragraphs 1 and 2) then undo the retaining screws and



4.4 Removing the heater controls from the rear of the dashboard panel

draw them from the rear panel. If necessary, undo the screws and remove the multi-function display unit from the panel. **See Illustration 7**

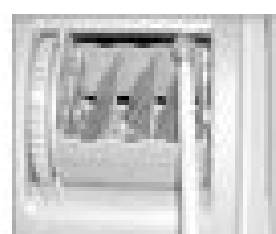
7 Remove the light switch located on the



4.5a ... undo the heater retaining screws using sockets from the panel ...



4.5b ... undo the heater retaining screws using sockets from the panel ...



4.5c ... undo the heater retaining screws using sockets from the panel ...



4.6 ... undo the heater retaining screws using sockets from the panel ...

rear of the rear of the face with reference to Chapter 10, Section 5, then undo the screws and remove the side and end panel around from the face. The screws are removed by pressing down the end panel to allow the



4.6a ... undo the heater retaining screws using sockets from the panel ...



4.6b ... undo the heater retaining screws using sockets from the panel ...



4.6c ... undo the heater retaining screws using sockets from the panel ...



4.7 ... undo the heater retaining screws using sockets from the panel ...

screws can rotate through the grille. This can be light, press the screws through the end grille for removal. Then release the side clip and turn the clip before refitting. **See Illustration 8**

8 Disconnect the wiring loom from the light meter (instrument) and remove the instrument. **See Illustration 9**

9 Remove the glovebox as described in Section 10.

10 Press back the passenger seat pad to stop, with the seat moving between the seat pads through the grille. Undo the screws, then undo the lower mounting bolt and withdraw the seat from the face. **See Illustration 10**

11 Push through the glovebox location and disconnect the wiring from the passenger wiring. This can be done by pulling the wiring or removing.



4.7a ... undo the heater retaining screws using sockets from the panel ...



4.7b ... undo the heater retaining screws using sockets from the panel ...



4.5 Refit the crankshaft pulley aligning the cut-out with the raised notch on the crankshaft sprocket (arrowed)



4.6 Fit the new retaining bolt and tighten it as described in the text



4.7 Timing belt upper cover retaining bolts (arrowed)

Opel Astra G Petrol Servicerepair Manual

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Opel Astra G Petrol Servicerepair Manual:

This book delves into Opel Astra G Petrol Servicerepair Manual. Opel Astra G Petrol Servicerepair Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Opel Astra G Petrol Servicerepair Manual, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Opel Astra G Petrol Servicerepair Manual
- Chapter 2: Essential Elements of Opel Astra G Petrol Servicerepair Manual
- Chapter 3: Opel Astra G Petrol Servicerepair Manual in Everyday Life
- Chapter 4: Opel Astra G Petrol Servicerepair Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Opel Astra G Petrol Servicerepair Manual. The first chapter will explore what Opel Astra G Petrol Servicerepair Manual is, why Opel Astra G Petrol Servicerepair Manual is vital, and how to effectively learn about Opel Astra G Petrol Servicerepair Manual.

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5. In chapter 4, the author will scrutinize the relevance of Opel Astra G Petrol Servicerepair Manual in specific contexts. The fourth chapter will explore how Opel Astra G Petrol Servicerepair Manual is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Opel Astra G Petrol Servicerepair Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Opel Astra G Petrol Servicerepair Manual.

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Table of Contents Opel Astra G Petrol Servicerepair Manual

1. Understanding the eBook Opel Astra G Petrol Servicerepair Manual
 - The Rise of Digital Reading Opel Astra G Petrol Servicerepair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Opel Astra G Petrol Servicerepair 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 Opel Astra G Petrol Servicerepair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Opel Astra G Petrol Servicerepair Manual
 - Personalized Recommendations
 - Opel Astra G Petrol Servicerepair Manual User Reviews and Ratings
 - Opel Astra G Petrol Servicerepair Manual and Bestseller Lists
5. Accessing Opel Astra G Petrol Servicerepair Manual Free and Paid eBooks
 - Opel Astra G Petrol Servicerepair Manual Public Domain eBooks
 - Opel Astra G Petrol Servicerepair Manual eBook Subscription Services
 - Opel Astra G Petrol Servicerepair Manual Budget-Friendly Options
6. Navigating Opel Astra G Petrol Servicerepair Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Opel Astra G Petrol Servicerepair Manual Compatibility with Devices
 - Opel Astra G Petrol Servicerepair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Opel Astra G Petrol Servicerepair Manual
 - Highlighting and Note-Taking Opel Astra G Petrol Servicerepair Manual
 - Interactive Elements Opel Astra G Petrol Servicerepair Manual

8. Staying Engaged with Opel Astra G Petrol Servicerepair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Opel Astra G Petrol Servicerepair Manual
9. Balancing eBooks and Physical Books Opel Astra G Petrol Servicerepair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Opel Astra G Petrol Servicerepair Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Opel Astra G Petrol Servicerepair Manual
 - Setting Reading Goals Opel Astra G Petrol Servicerepair Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Opel Astra G Petrol Servicerepair Manual
 - Fact-Checking eBook Content of Opel Astra G Petrol Servicerepair 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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