

**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 for refitting: examine the inside of the cover for a build-up of oil sludge or any other contamination, and if necessary clean the cover with care with a water based solvent. Examine the condition of the transverse ventilation filter inside the carbody cover and clean or as described for the inside of the cover. If fitting is easier if desired, the filter can be removed from the cover, after removing the securing bolts. Dry the cover thoroughly before refitting.

7 Wipe the cover clean and dry and seal the gasket to the cover using flat oil-free oil to the carbody fitting, ensuring the gasket remains correctly seated **(see Illustration 2)**.

8 Fit the retaining bolts, ensuring all relevant specifications are correctly performed and tighten them to the specified torque setting in a diagonal sequence.

9 Reconnect the transverse filter correctly to the carbody cover and oil filter and cover before operation.

### 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 car wheel.

2 Remove the timing drivebelt 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 timing bolts, and holding the driveplate in the transmission housing using a hold bar, remove and unbolt both. 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 3)**.

6 Tighten the crankshaft pulley retaining bolt to the specified torque. Ensure refitting from angle to align the belt through the crankshaft. Stage 1 right, using a wheel and extension bar, set fully through the specified Stage 2 angle. It is recommended that an angle measuring gauge is used during the final stages of the tightening to ensure accurate **(see Illustration 4)**. If a gauge is not available, use white spirit to make alignment marks between the belt head and pulley prior to tightening, the marks can then be used to check that the belt has been seated through the correct angle.

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



4.3 Ensure the gasket is correctly located in the crankshaft cover recess (removed)

then the timing driveplate as described in Chapter 1 using the hold bar prior to removal to ensure the belt is free to correct any slack.

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 oil cooler 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 5)**.

##### 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 rearward panel. If necessary, undo the screws and remove the multi-function display unit from the panel **(see Illustration 6)**.

7 Remove the light switch located on the



4.5 Fit the clock the lower screws

driver's side of the face, with reference to Chapter 10, Section 4, then undo the screws and remove the side and anti-rattle screws from the face. The screws are secured by pressing down the end panel to allow with the



4.6 Remove the sunroof panel from the face clips

screws can rotate through the gills. This can be light, spread the screws through the end gills for removal. Then release the side clip and turn the unit before refitting **(see Illustration 7)**. Withdraw the unit from the face and remove the screws.

8 Disconnect the wiring loom from the light sensor (sunroof) and remove the sunroof **(see Illustration 8)**.

9 Remove the gaskets as described in Section 10.

10 Press back the passenger vent panel to stop, with the seal pressing between the vent gills for removal. Then release the side clip and turn the unit before refitting **(see Illustration 9)**. Withdraw the unit from the face **(see Illustration 10)**.

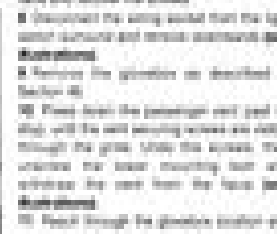
11 Reach through the gaskets location and disconnect the wiring from the passenger wiring. This can not be damaged the wiring or removed.



4.7 Undo the heater retaining screws using sockets from the panel



4.8 Undo the screws the wiring from the multi-info display unit



4.9 Press back the passenger vent panel to stop



4.10 Undo the lower screws



4.11 Undo the upper screws to remove the sunroof surround



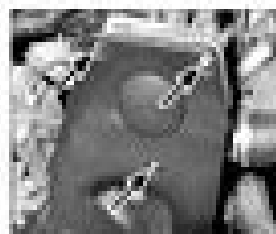
4.12 Tighten the vent panel to stop



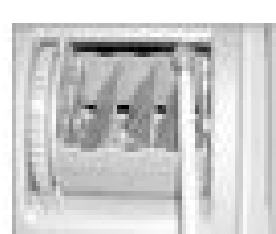
4.1 Refit the crankshaft pulley aligning the cut-out with the raised notch on the crankshaft sprocket (removed)



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



4.3 Timing belt upper cover retaining bolts (removed)



4.4 Undo the screws refitting



4.5 Release the clip



4.6 Undo the screws and withdraw the sunroof from the carbody

# Vauxhall Astra Owners Manual 2001

**Peter G. Strasman**



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web consider only the underlined items he offered me a lift but i didn t need one he lent me his car he drove faster than he should have his car is faster than mine i was worried about

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