

See Illustration 1 the cover is slack, do not move between the cover and dashboard housing using a screwdriver. Firmly press the cover sideways to free it from the panel. If it shows signs of damage or deterioration it must be replaced.

Refitting

6 Push in refitting, ensuring the ends of the cover fit a built-up of all stages of any other components, and if necessary cover the cover with a layer of a water-repellent material. Examine the condition of the dashboard ventilation filter inside the dashboard cover and clean or replace as described for the rest 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 Wipe the cover clean and dry and seal the gasket to the dashboard with sealant to the cover of the dashboard housing, 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 location hoses correctly to the dashboard cover and exit the car and cover before departure.

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 primary drive belt as described in Chapter 1. Then 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 bolts, and holding the driveplate in the transmission housing using a metal bar, remove the output bolts. If the engine is removed from the vehicle it will be necessary to use the transmission support (see Chapter 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, ensuring the pulley is refitted with the correct 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. Ensure refitting from angle to angle the belt through the specified Stage 2 angle, using a wheel and extension bar, with help 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 6)**. 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 refitted through the correct angle.

7 If necessary, remove the metal bar securing the driveplate to the transmission housing



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

from the auxiliary driveplate as described in Chapter 1 using the metal bar prior to removal to ensure the belt is fitted the correct way round.

8 Refit the headplate 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 7)**.

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 (auxiliary power) bracket.

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 8)**.

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 enter through the gills. This can be light, insert the screws through the end gills for removal. Then release the side clip and turn the unit before refitting **(see Illustration 9)**. 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 10)**.

9 Remove the gaskets as described in Section 10.

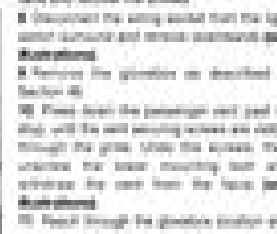
10 Press back the passenger vent panel to stop, with the seal pressing between the vent gills for removal. Then release the side clip and turn the unit before refitting **(see Illustration 11)**. Press through the gaskets (sunroof) and disconnect the wiring from the passenger vent. This can not be damaged by removal.



4.7 Undo the heater retaining screws using sockets from the panel



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



4.9 Press back the passenger vent panel to stop, with the seal pressing between the vent gills for removal



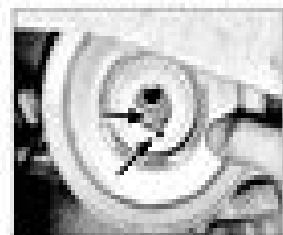
4.10 Undo the lower screws



4.11 Undo the screws and upper screws, to remove the sunroof surround



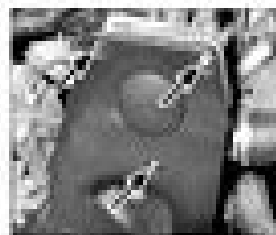
4.12 Tighten the vent panel to stop



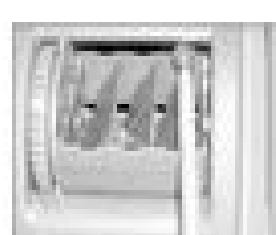
5.1 Refit the crankshaft pulley aligning the cut-out with the notch on the crankshaft sprocket (removed)



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



6.2 Timing belt upper cover retaining bolts (removed)



6.3 Undo the clip



6.4 Release the clip



6.5 Undo the screws and withdraw the sunroof from the surround

Mk 4 Astra Workshop Manual

Peipei Pang



Mk 4 Astra Workshop Manual:

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