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[see illustration], if the cover is stuck, do not lever between the cover and camshaft housing mating surfaces – if necessary, gently tap the cover sideways to free it. Recover the gasket; if it shows signs of damage or deterioration it must be renewed.

Refitting

4 Prior to 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 paraffin, or a water-soluble solvent. Examine the condition of the crankcase ventilation filter inside the camshaft cover, and clean as described for the inside of the cover if clogging is evident (if desired, the filter can be removed from the cover, after removing the securing bolts). Dry the cover thoroughly before refitting.

5 Ensure the cover is clean and dry and seat the gasket in the cover recess then refit the cover to the camshaft housing, ensuring the gasket remains correctly seated **[see illustration]**.

6 Refit the retaining bolts, ensuring all relevant clips/brackets are correctly positioned, and tighten them to the specified torque working in a diagonal sequence.

7 Reconnect the breather hoses securely to the camshaft cover, and refit the air inlet cover (where applicable).

5 Crankshaft pulley – removal and refitting

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

Removal

1 Firmly apply the handbrake, then jack up the front of the car and support it securely on axle stands (see *Jacking and vehicle support*). Remove the right-hand roadwheel.

2 Remove the auxiliary drivebelt as described in Chapter 1. Prior to removal, mark the direction of rotation on the belt to ensure the belt is refitted the same way around.

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



4.3 Removing the camshaft cover from the engine

top gear and apply the brakes firmly. On automatic transmission models prevent rotation by removing one of the torque converter retaining bolts and bolting the driveplate to the transmission housing using a metal bar, spacers and suitable bolts. If the engine is removed from the vehicle it will be necessary to lock the flywheel/driveplate (see Section 15).

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

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]**.

6 Lock the crankshaft by the method used on removal, and tighten the pulley retaining bolt to the specified Stage 1 torque setting then angle-tighten the bolt through the specified Stage 2 angle, using a socket and extension bar, and finally through the specified Stage 3 angle. It is recommended that an angle-measuring gauge is used during the final stages of the tightening, to ensure accuracy **[see illustration]**. If a gauge is not available, use white paint 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 metal bar securing the driveplate to the transmission housing.



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



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



4.5 Ensure the gasket is correctly located in the camshaft cover recess (arrowed)

Refit the auxiliary drivebelt as described in Chapter 1 using the mark made prior to removal to ensure the belt is fitted the correct way around.

8 Refit the roadwheel then lower the car to the ground and tighten the wheel 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 4A.

2 Undo the retaining bolts then unclip the timing belt upper cover and remove it from the engine **[see illustration]**.

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 5A, remove the alternator (auxiliary) drivebelt tensioner.

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



6.2 Timing belt upper cover retaining bolts (arrowed)

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