

11.15 Fit a new seal to the oil pump cover

mounting screws are in position. Remove all traces of sealer from the threads of the pump cover bolts.

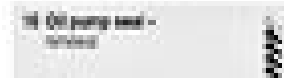
16 Fit a new seal into the groove around the oil pump housing section of the pump, and secure a band of suitable material (available from Haulage Gear) between the pump cover mating surfaces (see **Illustration**).

14 Carefully manoeuvre the oil pump cover into position, taking great care not to damage the oil seal lip or the camshaft seal inner roller shaft. Locate the cover of the pump housing onto the pump, making sure the cover is correctly positioned.

17 Apply a smear of sealer to the threads of each cover retaining bolt, then refit all bolts and tighten them to the specified torque. Note that the larger bolt corresponds to the lower oil pump bolt hole in the cover.

18 Refit the timing belt sprockets and belt as described in Section 1 and 2 then refit the pump as described in Section 12.

19 On completion with the engine with fuel or oil described in Chapter 1.



1 Remove the oil pump sprocket as described in Section 5.

2 Carefully push or pull a small hole in the oil seal lip, using a self-healing wire like the one used for the cover with plate to extract the wire (see **Illustration**).



11.17 Fit a new sealing ring to the grooves in the oil cover



11.18 Pull the screw to extract the seal

3 Insert a screw into the hole in the seal, and use it to extract the seal from the cover.

4 Clean the seal housing, and push off any burrs or raised edges which may have caused the seal to fail in the first place.

5 Press the new seal into position using a suitable rubber mallet such as a mallet which has only an beveled outer edge of the seal. Take care not to damage the seal lip during fitting. Note that the seal lip should face inwards.

6 Refit the oil pump sprocket as described in Section 5.



Removal

1 The oil cover and integral oil filter housing is situated on the rear left-hand side of the cylinder block. Fully open the handbrake, then put up the bonnet of the car and support it securely on safe stands (see **Jacking and support**).

2 Clean the cooling system as described in Chapter 1. Alternatively, drain the oil cooler hoses directly down the drain and be prepared to catch coolant loss as the hose is disconnected. To replace screws to the coolant hoses, remove the charge air pipe/fan.

3 Position a suitable container beneath the oil filter. Undo the oil cooler return hose pin, then the retaining clip and disconnect the return hose.



11.17 Ensure that the top of the oil filter housing engages, then with the centre bolt

4 Release the clips and disconnect the coolant hoses from the oil cooler, and remove the wiring loom retaining clips.

5 Remove the single bolt securing the oil filter housing to the cylinder block. Thread the retaining clip, a new one must be used on refitting.

Refitting

6 Fit a new sealing ring to the grooves in the rear of the cooler, then offer the cooler to the cylinder block (see **Illustration**).

7 Ensure that the oil cooler return hose pin is correctly positioned, ensure that the top of the oil filter housing engages correctly. Then refit the centre bolt and tighten it to the specified torque (see **Illustration**).

8 Reconnect the coolant hoses to the cooler and secure them in position with the retaining clips.

9 Lower the vehicle to the ground, top up the engine oil level as described in Chapter 1.

10 If removed, refit the charge air pipe/fan.

11 Refit or top up the cooling system and engine oil as described in Chapter 1. Start the engine, and check the oil cooler for signs of leakage.



Note: New physical retaining bolts will be required on refitting.

Removal

1 Remove the transmission as described in Chapter 10 then remove the clutch assembly as described in Chapter 9.

2 Remove the handbrake from turning by turning the top gear lock (see **Illustration**). Alternatively, hold a strap between the handbrake and the cylinder block/crankcase. Make significant marks between the handbrake and crankcase, using paint or a suitable marker pen.

3 Remove and remove the retaining bolts and plate, then remove the handbrake (see **Illustration**). Do not stop it, as it is very noisy.



11.19 Fabricate a locking bar to retain the handbrake



11.2 Push out the centre pin and extract the separating nut securing the mufflers to the base of the bumper

3 Undo the screws on each side above the muffler location, securing the wheel arch liner to the bumper (see **Illustration**).

4 Undo the two bumper rear retaining screws in the number plate aperture (see **Illustration**).

5 Release the tongue assembly from the upper edge of the bumper (see **Illustration**).

6 On models with parking distance sensors, disconnect the distance sensor cable wiring connector from the underside of the bumper.

7 With the aid of an assistant, pull the bumper upwards and outwards at the sides to disengage the side guide rails (see **Illustration**).

8 Pull the bumper downwards to disengage the rear guide rails and centre guide rail (see **Illustration**).

9 When sufficient clearance exists, release the bumper plate light submounts from the light units. The submounts are a bracket thingy in the light units (see **Illustration**).



11.7 Release the bumper assembly from the upper edge of the bumper



11.11 Release the bumper plate light submounts from the light units



11.4 Undo the three screws (shown) on each side



11.5 Undo the screws each side (shown) securing the wheel arch liner to the bumper

10 Carefully lift the bumper off the car (see **Illustration**).

Refitting

18 Refit the rear light cluster each side as described in Chapter 12.



11.12 Push the bumper upwards and outwards at the sides to disengage the side guide rails



11.13 Push the bumper downwards to disengage the rear guide rails and centre guide rail



11.4b Undo the three screws (shown) on each side



11.5b Undo the screws each side (shown) securing the wheel arch liner to the bumper

16 Undo the retaining screws each side in the rear light cluster aperture (see **After System**).

16 Working under the wheel arch, undo the four retaining screws (two on each side).



11.14 Undo the two screws in the number plate aperture



11.15 Push the bumper upwards and outwards at the sides to disengage the side guide rails

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