

1.21 Remove the upper part of the rear cover from the engine block side



1.22 Remove the upper part of the rear cover from the water pump forward



1.23 Open the rear cover and rotate the rear



1.24 Slide the bolt across the top cover side (removed) ...



1.25 ... then push the lower part of the rear cover forward

guide forward from the water filter rear housing (see **Rebuilding**).

24 Turn the crank and release the rear valve head, at the front of the water filter rear housing (see **Rebuilding**).

25 Slide the bolt across the top cover side

and push the front edge of the water filter rear housing forward and separate (see **Rebuilding**). Study the timing marks on the housing (see **Rebuilding**).

26 Under the pump, use the centre of the protrusion guide (see **Rebuilding**) to push the bolt

across the right-hand bearing frame and push the bolt from place. Take care not to damage the water pump (see **Rebuilding**).

27 Under the bolt and remove the bolt and rear valve cover from the engine (see **Rebuilding**). Note that the only movement to raise the rear cover to the right-hand side is 180°. In practice, clearance for the air filter case.

28 Under the bolt and push the bolt upwards from the housing (see **Rebuilding**).

29 Push the 4 bolts and 10 of the 100 housing (see **Rebuilding**).

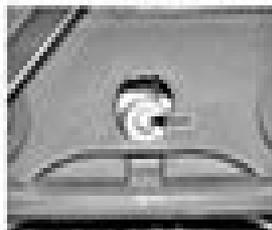
30 Lift the rear element from place, using the support at the end of the rear element flange in the housing (see **Rebuilding**).

31 Clean the air filter housing, removing all debris.

32 Slide the rear filter element into place, ensuring it is seated correctly with the housing, with the rear covering lip at the base.



1.26a Rotate the cap with clockwise to remove it



1.26b Slide the water filter forward



1.26c ... and the bolt upwards at the end of the right-hand frame



1.27 Slide the water pump and move the rear cover to the left-hand side a little



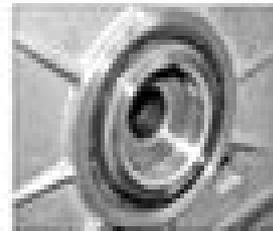
1.28a Slide the bolt forward



1.28b ... and push the rear cover, then the top of the rear element



1.31 Remove the crankshaft oil seal using a self-healing wire



1.32 Press the seal squarely into position with a block and the timing chain cover



1.33 Remove the cap from the end of the crankshaft



1.34 Slide the bolt across and push the crankshaft position sensor from place



1.35 Slide the bolt and push the seal housing from the engine block. The cap can be removed for easy access

block and turn, without damaging the water pump (see **Rebuilding**). If the pump is damaged, the pump oil seal to be removed as described in Section 5. Note that oil seal is unique to the housing.

36 The rear seal and housing assembly is supplied with a seal protector installed. Lubricate the end of the crankshaft with a little clean engine oil, then position the seal protector, complete with seal, over the end of the crankshaft, and ease the seal and housing over the crankshaft (see **Rebuilding**).

37 Tighten the oil seal housing bolts and tighten from the top-hand side.

38 Tight the crankshaft position sensor and tighten the oil screws.

39 Check the timing is correct (that is the end of the timing) and set the oil cap.

40 Wash off any oil that will be required straight as described in Section 10.

### 12 Crankshaft oil seal - removed

#### Front seal

1 Remove the crankshaft pulley/belt drive as described in Section 5.

2 Any existing grease in the seal area will be removed when other is fitted (see 'Seal and housing' above). Lubricate the seal with grease to allow the seal (see **Rebuilding** Section). When you start the motor to ease damage to the crankshaft.

3 Clean the seal housing and grease off any burnt or excess water which may have caused the seal to fail in the first place.

4 Lubricate the seal lip with clean engine oil. Then press the seal squarely into position.

with a flat and the housing. If necessary, a suitable block can be used as a support when there are any of the front side edge of the seal can be used to lay the seal into position. Take great care not to damage the seal by doing this and ensure that the seal lip face remains (see **Rebuilding**).

5 Tight the crankshaft pulley as described in Section 5.

#### Rear seal

1 Remove the flywheel or alternator as described in Section 10.

2 Carefully remove the seal from the end of the crankshaft (see **Rebuilding**).

3 Clean the seal and push the crankshaft position sensor into the oil seal housing (see **Rebuilding**).

4 Under the timing bolts, then carefully adjust the oil seal housing from the engine.

### 13 Flywheel/alternator - removed, inspected and refitting

#### Flywheel

See how flywheel refitting needs need to meet in refitting.

#### Removed

1 Remove the flywheel assembly as described in Section 6.

2 Fit the flywheel nut loosely by moving the gear teeth with a slight arrangement to the cover (see **Rebuilding** instructions).



1.36 Slide the seal housing from the end of the crankshaft



1.37 Push the assembly over the end of the crankshaft



1.38 Lock the flywheel using a timing tool

# Manual Bmw Serie 1

**SA Adler**



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