

- c) Refit the vacuum pump as described in Chapter 9, Section 20.
- d) Refit the timing belt tensioner as described in Section 8.
- e) Refit the camshaft sprocket as described in Section 8, and refit the timing belt as described in Section 7.
- f) Refit the camshaft cover as described in Section 4.
- g) Refill the engine with oil as described in Chapter 1, Section 3.
- h) Refit the cooling system as described in Chapter 1, Section 30.

14 Sump – removal and refitting



Note: VW sealant (D 176404 A2 or equivalent) will be required to seal the sump on refitting.

Removal

- 1 Firmly apply the handbrake, then jack up the front of the vehicle and support it securely on axle stands (see Jacking and vehicle support).
- 2 Where fitted, undo the retaining bolts and remove the engine undertray.
- 3 Drain the engine oil as described in Chapter 1, Section 3.
- 4 Where fitted, disconnect the wiring connector from the oil level/temperature sender in the sump (see illustration).
- 5 Using a wide-bladed scraper or similar tool inserted between the sump and cylinder block, carefully break the joint to release the sump, then manoeuvre the sump out from under the vehicle.
- 6 If desired, unbolt the oil baffle plate from the cylinder block.

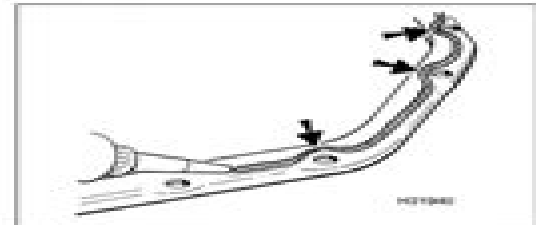
Refitting

- 7 Begin refitting by thoroughly cleaning the mating faces of the sump and cylinder block. Ensure that all traces of old sealant are removed.
- 8 Where applicable, refit the oil baffle plate, and tighten the securing bolts.
- 9 Ensure that the cylinder block mating face of the sump is free from all traces of old sealant, oil and grease, and then apply a 2.0 to 3.0 mm thick bead of silicone sealant (VW D 176404 A2 or equivalent) to the sump (see illustration). Note that the sealant should be run around the inside of the bolt holes in the sump. The sump must be fitted within 5 minutes of applying the sealant.
- 10 Offer the sump up to the cylinder block, then refit the sump-to-cylinder block bolts, and lightly tighten them by hand, working progressively in a diagonal sequence. **Note:** If the sump is being refitted with the engine and transmission separated, make sure that the sump is flush with the flywheel end of the cylinder block.
- 11 Refit the sump-to-transmission casing bolts, and tighten them lightly, using a socket.
- 12 Again working in a diagonal sequence,



14.4 Disconnect the wiring connector from the oil level/temperature sender

- lightly tighten the sump-to-cylinder block bolts, using a socket.
- 13 Tighten the sump-to-transmission casing bolts to the specified torque.
- 14 Working in a diagonal sequence, progressively tighten the sump-to-cylinder block bolts to the specified torque.
- 15 Refit the wiring connector to the oil level/temperature sender (where fitted), then refit the engine undertray, and lower the vehicle to the ground.
- 16 Allow at least 30 minutes from the time of refitting the sump for the sealant to dry, then refill the engine with oil, with reference to Chapter 1, Section 3.



14.9 Apply the sealant around the inside of the bolt holes

15 Oil pump and drive chain – removal, inspection and refitting



Oil pump

Removal

- 1 Remove the sump as described in Section 14.
- 2 Unscrew the securing bolts, and remove the oil baffle from the cylinder block.
- 3 Unscrew and remove the three mounting bolts, and release the oil pump from the dowels in the crankcase (see illustration).



15.3 Sump and oil pump components

- | | | | |
|------------------------|-------------------------|---------------------|---------------------------------|
| 1 Oil pump | 5 Crankshaft oil seal | 9 Seal | 15 Seal |
| 2 Oil pump sprocket | 6 Bolt | 10 Sump drain plug | 16 Oil level/temperature sender |
| 3 Bolt | 7 Drive chain tensioner | 11 Dowels | 17 Bolt |
| 4 Oil pump drive chain | 8 Sump | 12 O-ring | 18 Oil spray jet |
| | | 13 Oil pick-up pipe | 19 Bolt |
| | | 14 Oil baffle | |

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nov 26 2021 an engineering drawing also named as mechanical drawing manufacturing blueprints drawings dimensional prints and more refers to one of the technical drawings which helps to define engineering products requirements basically this type of drawing aims at clearly capturing all the geometric features of products and their components

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to prepare a drawing one can use manual drafting instruments figure 12 or computer aided drafting or design or cad the basic drawing standards and conventions are the same regardless of what design tool you use to make the drawings in learning drafting we will approach it from the perspective of manual drafting