

Every 40 000 miles – petrol models 1.4-1.8



It is very often difficult to insert spark plugs into their holes without cross-threading them. To avoid this possibility, fit a short length of rubber hose over the end of the spark plug. For flexible hose only as a universal joint to help align the plug with the plug thread, the hose will slip on the spark plug, preventing thread damage to the aluminium cylinder head.



16.1 Removing the tensioner and main oil plug

spark plug socket and torque wrench. Tight the covering spark plug in the same manner.

16 Reconnect the oil cooler/pump cable using a routine oil removal procedure.

26 Auxiliary drivebelt check and tension



16.2 Removing the auxiliary drivebelt

2 Remove the upper band from tensioner, then remove the drive pulley from the motor shaft pulley.

3 On 1.4 litre (DOHC) 1.6 and 2.0 litre engines, use a spanner on the lag provided and turn the tensioner clockwise. Loosely the tensioner to its relaxed position by moving it and through the lag into the tension body **see illustration**.

4 On 1.4 litre and 1.6 litre (DOHC) engines, use a spanner to turn the tension control belt clockwise to release the tension on the drivebelt **see illustration**.

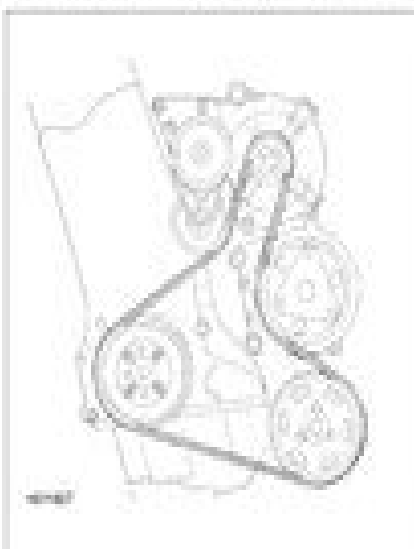
5 Tighten the drivebelt is tested, then remove it from the crankshaft pulley, alternator pulley, power steering pump pulley, and air conditioning compressor pulley (where applicable) **see illustration**.

Checking

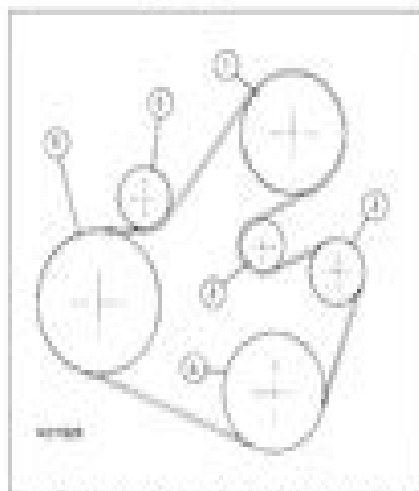
1 See Section 4.

Removal

2 For maintenance apply the technique, then take up the front of the vehicle and support it on axle stands (see jacking and vehicle support).



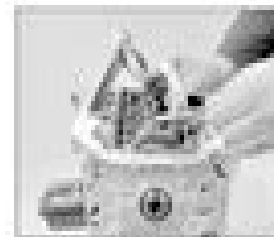
16.3a Auxiliary drivebelt configuration - 1.4 litre (DOHC), 1.6 and 2.0 litre engines with air conditioning



16.3b Auxiliary drivebelt configuration - 1.4 and 1.6 litre (DOHC) engines with air conditioning

- | | |
|------------------------------|-------------------------------|
| 1 Power steering pump/pulley | 2 Air conditioning compressor |
| 3 Idle roller | 4 Crankshaft pulley |
| 5 Alternator pulley | 6 Tensioner |

16-18 DOHC petrol engine in-car repair procedures



17.1 Removing the oil pump up pipe - 1.4 litre engine

16 Purge refilling is a reversal of removal, leaving in mind the following points.

a) Remove that oil pipes, wires and hoses are correctly reconnected and routed in correct paths without

b) Start the crankshaft cover as described in Section 4.

c) Install the tensioner as described in Section 4 then fit the timing belt as described in Section 7.

d) Reconnect the various front section to the motor or sub-engine, as applicable, as described in Chapter 10.

e) Where appropriate, refit the rear section using new pulleys.

f) Tighten all clamps to the specified torque, where applicable.

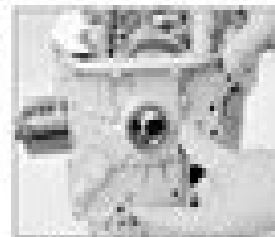
g) On completion, refill the cooling system as described in Chapter 1.6.

18 Pump - removal and refitting

1.4 and 1.6 litre engines

1 Proceed as described in Chapter 16, Section 13 (Pump) - removal and refitting, leaving in mind the following points.

a) The crankshaft front section must be removed as described in Chapter 10, to allow clearance for removal of the pump to allow refitting the pump to guide the pump in position on the cylinder head mating flange. For pump slack can be independently



17.2 Removing the oil pump - 1.4 litre engine

rotating the heads of two 6M bolts, and cutting side in the end of the bolts so that they can slide in underneath using a flat-bladed screwdriver. Drive the guide shaft into the pump body, making sure it is correctly seated. Then the pump can be removed. Once the pump is removed, the guide shaft and the remaining pump body. Once the pump is removed, the guide shaft and the remaining pump body can be removed.

1.8 litre engines

2 Proceed as described in Chapter 16, Section 13 (Pump) - removal and refitting, but note that it will be necessary to use a long tapered extension to reach inside of the pump securing bolts.

3 Remove the pump as described in Section 16.

4 Uncover the securing bolts and remove the oil pump up pipe, then the oil pump and cylinder head **see illustration** through the pump.

5 Remove the crankshaft assembly, making sure you mark it as free.

6 Uncover the securing bolts, making their locations to ensure correct refitting, and remove the oil pump **see illustration**. Remove the pump.

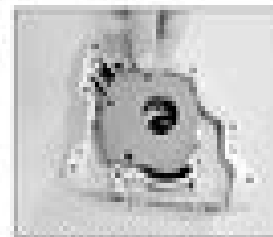
Notes: Use of pump securing bolts, a set of pump gaskets, a new oil pump up pipe and a new crankshaft oil seal will be required on refitting.

Removal

1 Remove the main timing belt, as described in Section 7.

2 Mark the crankshaft pulley securing bolt, with a spacer washer positioned under the head, to start the crankshaft rotation.

3 Turn the crankshaft a quarter turn (90°) clockwise to position face 1 and 2 pulleys at



17.3 Lifting off the oil pump and cover - 1.4 litre engine

100°. Ensure that the crankshaft assembly bolt and the crankshaft rear edge is aligned with the corresponding mark on the oil pump housing **see Section 3**.

4 Turn the crankshaft to move the crankshaft assembly from both end clockwise away from the 100° position. The two marks on the right of the pump with the ground sheet plate edge must align with the corresponding mark on the oil pump housing. This procedure confirms the crankshaft correctly to enable oil pump refitting.

5 Remove the main timing belt tensioner, as described in Section 4.

6 Remove the pump as described in Section 16.

7 Uncover the securing bolts and remove the oil pump up pipe, then the oil pump and cylinder head **see illustration** through the pump.

8 Remove the crankshaft assembly, making sure you mark it as free.

9 Uncover the securing bolts, making their locations to ensure correct refitting, and remove the oil pump **see illustration**. Remove the pump.

Inspection

10 For spare parts are available for the oil pump, and it must be fully the complete parts that be removed.

11 To inspect the oil pump housing, remove the securing screws, and lift off the oil pump housing **see illustration**.

12 Note that the cover is with the painted area on the edges of the main timing belt oil pump cover **see illustration**.

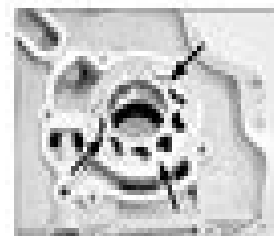
13 Lift out the rollers, and inspect them for wear and damage. If there are any signs of wear or damage, the complete oil pump assembly must be replaced.

14 Lubricate the contact faces of the rollers with clean engine oil, then refit the rollers to the pump, ensuring that the painted dots on the edges of the rollers face the pump cover.

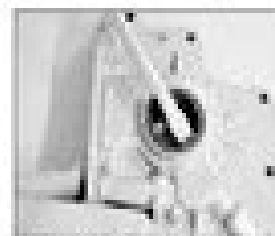
15 Refit the pump cover, and tighten the screws evenly.

16 Using a flat-bladed screwdriver, press the crankshaft oil seal from the oil pump, and discard it **see illustration**.

17 Thoroughly clean the oil seal and in the oil pump.



17.4 Note that the rollers 14 with the painted dots (arrowed) facing the oil pump cover - 1.4 litre engine



17.5 Press the crankshaft oil seal from the oil pump - 1.4 litre engine

Vw Golf 4 Instruction Manual

Shasha Hu



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