

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.

2 On 1.4 litre (DOHC) 1.6 and 2.0 litre engines, use a spanner on the top provided and turn the tensioner clockwise. Loosely the tensioner to the required position by moving it and through the top into the tensioner body. **See Illustration.**

2 On 1.4 litre and 1.6 litre (DOHC) engines, use a spanner to turn the tensioner control bell clockwise to release the tension on the drivebelt. **See Illustration.**

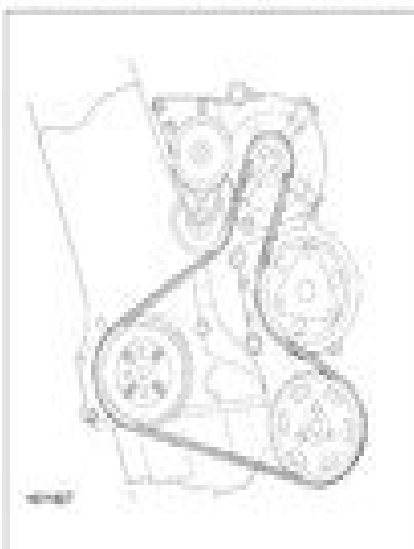
2 Tighten the drivebelt as tested, then remove it from the crankshaft pulley, alternator pulley, power steering pump pulley, and air conditioning compressor pulley (where applicable). **See Also Beforehand.**

Checking

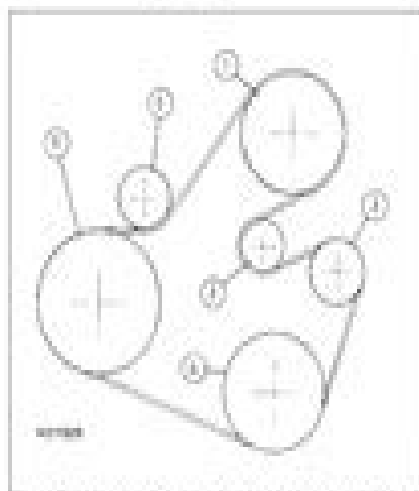
1 See Section 4.

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 top plate - 1.4 litre engine

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

2 Remove that oil pump, main and front oil cooler, disconnected and routed to return pulley return.

2 From the crankshaft pulley as described in Section 4.

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

2 Reconnect the return from section to the mainline or sub-engine, as applicable, as described in Chapter 10.

2 Where applicable, refit the main coolant pump and pump.

2 Tighten all bolts to the specified torque, where applicable.

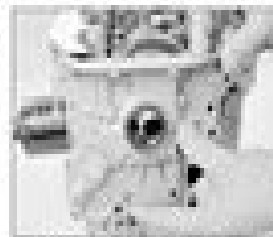
2 On completion, refill the cooling system as described in Chapter 14.

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.

2 The crankshaft front pulley 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 face. For pump slack can be important to



17.2 Removing the oil pump - 1.4 litre engine

cutting 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-headed screwdriver. Drive the guide into the two diagonally opposite holes, making sure they are in the correct position. Then the pump is held securely in position, under the guide block, and the remaining two pump securing bolts.

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 bolts of the pump securing bolts.

17 Oil pump (1.4 and 1.6 litre engines) - removal, inspection and refitting

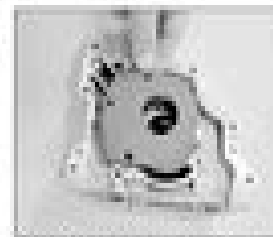
Note: Use of pump securing bolts, a set of pump gaskets, a new oil and oil pump gasket and a new crankshaft oil seal will be required on refitting.

Removal

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

2 Tighten the crankshaft pulley securing bolt, with a special washer positioned under the head, to slack the crankshaft pulley.

2 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 sprocket bolt and the crankshaft rear edge is aligned with the corresponding mark on the oil pump housing (see Section 3).

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

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

2 Remove the pump, as described in Section 10.

2 Uncover the securing bolts and remove the oil pump top plate. The oil pump and cylinder head gasket (illustration) through the pump.

2 Remove the crankshaft sprocket, making sure you mark it as free.

2 Uncover the securing bolts, making their locations to ensure correct refitting, and remove the oil pump. **See Illustration.** Remove the gasket.

Inspection

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

10 To inspect the oil pump housing, remove the securing screws, and lift off the oil pump housing. **See Illustration.**

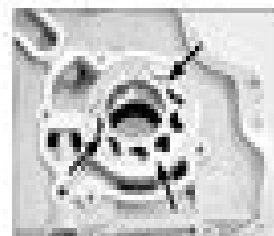
10 Note that the cover is with the painted area on the edges of the main timing belt oil pump cover. **See Illustration.**

10 Lift out the main, and inspect from the rear and damage. If there are any signs of wear or damage, the complete oil pump assembly must be replaced.

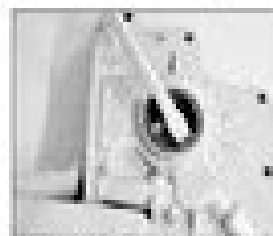
10 Lubricate the contact faces of the valve with clean engine oil, then lift the valve in the pump, ensuring that the painted dots on the edges of the valve face the pump cover. Then the pump cover, and tighten the main screws.

10 Using a flat-headed screwdriver, press the crankshaft oil seal from the oil pump, and discard it. **See Illustration.**

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



17.4 Note that the valve is with the painted dots (crankshaft 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 Repair Manual

Siddappa N.Byrareddy



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