

spring is slack, use a hole or screwdriver taped to the flywheel in order to tension it. Do not slack a screwdriver between the spring and cylinder block as this may damage the mating surfaces.

10 If it is recommended that the oil and/or fuel are removed whenever the pump is removed, before refitting the spring, it is a good idea to remove the oil flow in order to allow the oil to drain from the cylinder block oil galleries and remove sludge.

Refitting

11 Thoroughly clean the mating surfaces of the spring and cylinder block.

12 Place the gasket onto the pump and align it with the bolt holes in the cylinder block (see illustration).

13 With the spring in place, insert all of the bolts finger-tight (see illustration). Tighten bolts in pairs in the correct pattern as noted or removed.

14 The bolts can now be tightened securing the transmission to the pump, to the specified torque. This will ensure the top of the pump is correctly aligned with the transmission, as if it is not aligned correctly, vibration and noise may result.

15 Tighten the remaining pump bolts to the specified torque.

16 Complete the rest of the installation by reversing the removal procedure, referring to the relevant chapters.

17 When all components are refitted, start the engine and check carefully around the pump for any oil leaks.

12 Oil pump - removal, inspection and refitting

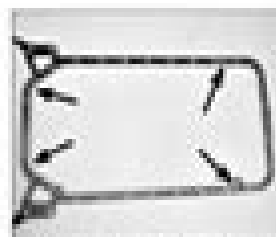
Removal

1 Remove the pump as described in Section 11.

2 The sprocket must be disengaged from the chain as the oil pump is being removed.



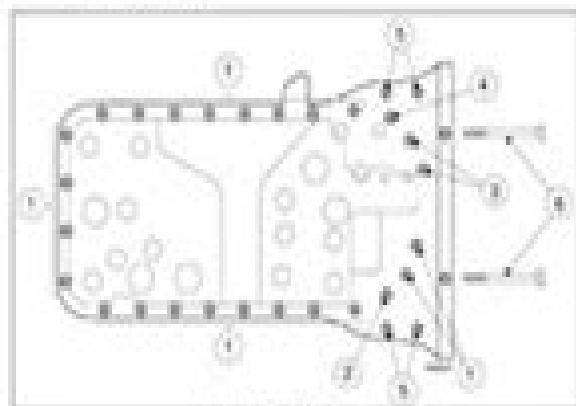
12.1 Oil pump mounting bolts



12.1b Note the points where the pump is located on the gasket



12.1c Fit the pump using a screwdriver



12.1d Pump bolt locations

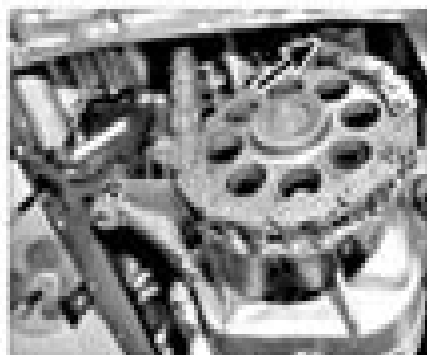
1 (clock) 2 (clock) 3 (clock) 4 (clock) 5 (clock) 6 (clock)

3 Uncover the mounting bolts, withdraw the oil pump from the bottom of the crankcase and remove the timing belt (see illustration).

4 Place against the chain tensioner and disengage the sprocket from the chain as the pump is being removed (see illustration).

Inspection

5 With the assistance of the oil pressure and valve components, the oil pump is a sealed unit. To remove the oil pressure and valve components, proceed as follows:



12.2 Press against the chain tensioner



2.4a Remove the valve spring cap...



2.4b ...and spring



2.4c Lift off the spring cap

- a) Flywheel/sprocket
- b) Bolt
- c) Chain
- d) Piston/connecting rod assemblies
- e) Exhaust shaft assembly - off engine only
- f) Crankshaft

6 Before beginning the dismantling and overhaul procedures, make sure that you have all of the correct tools necessary. Refer to Tools and working facilities for further information.

2 Cylinder head - dismantling

Note: New and reconditioned cylinder heads are available from the manufacturer, and most engine overhaul specialists. Be aware that some specialist tools are required for the dismantling and inspection procedures, and new components may not be readily available. It may therefore be most practical and economical for the home mechanic to purchase a reconditioned head, rather than dismantle, inspect and recondition the original head. A valve spring compressor tool will be required for this system.

6 Remove the cylinder head(s) as described in Chapter 2A Section 12 or Chapter 2B Section 12.

7 Remove the exhaust manifold as described in Chapter 2B Section 12.

8 Remove the glow plugs as described in Chapter 2B Section 2.



2.5a Remove the valves from the combustion chamber

9 Using a valve spring compressor, compress the spring on each valve in turn until the split collar can be removed. Release the compressor, and lift off the spring cap and spring (see illustration). 10 When the valve spring compressor is removed from the spring cap, there will be space for the split collar, partly for the top of the cap, already over the spring cap, with a split retaining. The oil flow is released.

11 Using a set of plates or special removal tool, carefully remove the valve stem of steel from the top of the guide, then lift off the spring cap (see illustration).

12 Withdraw the valve through the combustion chamber (see illustration).

13 It is essential that each valve is stored with its correct, cap, spring, and spring cap. The valves should also be kept in their correct sequence, unless they are carefully seen that they are to be reversed. If they are going to be used and used again, place each valve assembly in a separate plastic bag or wrap and remove (see illustration). Label each bag/box 1 (valve), 2 (spring), 3 (cap), 4 (retainer), etc., noting that the 1 (valve) is stored in the timing chain end of the engine.

2 Cylinder head and valve - cleaning and inspection

14 Thorough cleaning of the cylinder head and valve components, followed by a detailed inspection, will enable you to decide how

much valve service work must be carried out during the engine overhaul. Note that engine has been relatively unharmed. It is best to ensure that the cylinder head is exposed - check regularly for signs of this.

Cleaning

15 Remove any oil traces off old gasket material from the cylinder head.

16 Remove any carbon from the combustion chamber and ports that could cause the cylinder head to be damaged with pressure in a sudden start.

17 Remove all any loose carbon deposits that may have formed on the valves, then use a power operation any brush to remove deposits from the valve head and stem.

Inspection

Note: Be sure to perform all of the following inspection procedures before commencing that the service of a machine shop or engine overhaul specialist are required. Make a list of all items that require attention.

Cylinder head

18 Inspect the head very carefully for cracks, evidence of incorrect torque, and other damage. If cracks are found, a new cylinder head should be obtained.

19 Use a straight edge and feeler gauge to check that the cylinder head gasket faces are not distorted (see illustration). If it is, it may be possible to have it flattened, provided that the cylinder head is not returned to use that the specified length.



2.6 Check the valve components in a labelled bag



2.7 Use a straight edge and feeler gauge to check the cylinder head gasket face for distortion

Mercedes W211 Engine Manual

Michael Rajnik



Mercedes W211 Engine Manual:

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