



10.8 Loosen the idler pulley bolts (arrowed) to relieve the tension on the timing belt so it can be removed



10.9b Removing the timing belt from the camshaft sprocket on the M40 engine



10.10 Removing the camshaft sprocket on the M40 engine



10.11a The BMW tool for holding the camshaft in the TDC position on M40 engines



10.8a When removing the timing belt on models with a two-piece crankshaft hub, it's a tight fit to remove it around the hub, but it's a lot easier than removing the crankshaft hub assembly, which is secured by a very tight bolt

alignment mark on the camshaft sprocket and use timing-cover to ensure correct refitting.

8 On the M20 engine, loosen the two tensioner roller retaining bolts a little, and push the tensioner towards the water pump (see illustrations). With the timing belt tension relieved, re-tighten the retaining bolt.

9 On the M40 engine, loosen the tensioner retaining nut, and use an Allen key to rotate the tensioner clockwise. This will relieve the tension of the timing belt. Tighten the retaining nut to hold the tensioner in its free position.

10 If the same bolt is to be refitted, mark it with an arrow indicating direction of rotation.

Caution: It is not advisable to re-fit a timing belt which has been removed unless it is virtually new. On the M40 engine, BMW

recommends that the timing belt is replaced every time the tensioner roller is released.

11 Remove the timing belt by slipping it off the roller(s) and the other sprockets (see illustrations).

12 If it's necessary to remove the camshaft or the intermediate-shaft sprocket, remove the sprocket bolt while holding the sprocket to prevent it from moving. To hold the sprocket, wrap it with a piece of an old timing belt (dotted line engaging the sprocket tooth) or



10.11b The BMW camshaft-holding tool in position on the M40 engine

a piece of leather, then hold the sprocket using a strap spanner. If a strap spanner is not available, clamp the ends of the piece of belt or leather tightly together with a pair of grips. Before loosening the bolt, make sure you have the necessary tool for positioning the camshaft as described in the following paragraph (see illustrations).



Caution: Do not use the timing belt you're planning to refit to hold the sprocket. Also, be sure to hold the camshaft/sprocket very steadily, because if it moves more than a few degrees, the valves could hit the pistons.

Note: On the M40 engine, the sprocket is not directly located on the camshaft with a key, as the groove in the end of the camshaft allows the sprocket to move several degrees in either direction. The retaining bolt locks the sprocket onto a taper after positioning the camshaft with a special tool.

13 The BMW tool for positioning the camshaft on the M40 engine consists of a metal plate which locates over the square lug near the No 1 cylinder tubes on the camshaft - the valve cover must be removed first (see illustrations). If the BMW tool cannot be obtained, a home-made tool should be fabricated out of metal plate. The tool must be made to hold the square lug on the camshaft at right angles to the upper face of the cylinder head (see illustration).

12 If the timing belt is to be refitted, the sprocket, remove the timing belt from the sprocket, wrap it with a piece of leather, then hold the sprocket using a strap spanner.

Note: The removal of the crankshaft bolt means that the crankshaft is no longer clamped to the engine block. To prevent the crankshaft from rotating, use a special numbered (132150 (M20 engine) or 112170 (M40 engine)) for this purpose. If this tool cannot be bought or borrowed, check with a tool-shed or motor factors for a tool capable of doing the job. Note that the tool number 132170 bolts on the rear of the cylinder head and engages with the flywheel ring gear, so it will only be possible to use this tool if the gearbox has been removed, or if the engine is out of the vehicle (see illustrations). On



10.12a Home-made tool for holding the crankshaft stationary while the crankshaft pulley bolt is being loosened (engine removed for clarity)

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