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24x6 1.0, 1.2 and 1.4 litre (Z14XEP) petrol engine in-car repair procedures

TOOL TIP

Tool Tip 1: A commercially-available clutch aligning tool can be used as a TDC positioning tool.

4.10a The end of the tool must engage with the slot in the crankshaft web (arrowed) - shown with engine partially dismantled.

4.10b Clutch aligning tool in position in the TDC setting hole.

4.12 Carburettor setting tool (arrowed) made from lead strip and inserted into the carburettor slide.

9 If the Vauchal TDC positioning pin KM-952 is available, insert the tool into the TDC position setting hole. Slowly turn the carburettor in the normal direction of rotation until the tool engages with the TDC slot in the carburettor, and move the tool slowly from the carburettor in the normal direction of rotation until the end collar engages with the TDC slot in the carburettor web. Push the core fully into the setting hole as far as it will go, and the carburettor should now be locked in the TDC position (see illustrations).

4.13a Vauchal/Opel carburettor sensor phase disc positioning tool (KM-954) normally engages with the crankshaft support bearing is of 12 mm diameter, and the sliding cone (the part that normally engages with the clutch disc hub) is of 17.5 mm diameter.

4.13b Home-made cardboard alternative carburettor sensor phase disc positioning tool in place.

11 If the Vauchal carburettor setting tool KM-953 is available, insert the tool into the slots in the left-hand end of the carburettor. Ensure that the tool is inserted fully, up to its stop, to lock both carburettors.

12 In the absence of the Vauchal tool, a carburettor setting tool can be made out of 5 mm thick flat steel strip, approximately 200 mm wide and long enough to engage both carburettor slides. Insert the setting tool into the carburettor slots to lock the carburettors in the TDC position (see illustrations). Note that a ready-made equivalent is available from tool stockists.

13 If it is not possible to insert the carburettor setting tool, then the valve timing must be adjusted as described in paragraphs 17 to 20 below.

14 If it is satisfactory as far as the position of the carburettor position sensor phase disc on the inlet carburettor should be checked. This check entails the use of Vauchal carburettor sensor phase disc positioning tool KM-954. If the tool is not available, an alternative can be fabricated as follows.

15 The Vauchal positioning tool KM-954 is a relatively substantial die-casting, the purpose of which is to check the position of the phase disc, and also to hold the phase disc in the correct position on the carburettor bracket if adjustment is required. During the workshop procedures undertaken for the preparation of this manual, we discovered that a tool made from stiff cardboard (such that used for the cover of a Home manual) worked just as well as the factory tool (see illustrations and Tool Tip 2).

TOOL TIP

Tool Tip 2: A home-made carburettor sensor phase disc positioning tool can be fabricated using the dimensions shown.

ALL DIMENSIONS IN MM

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