AR05.20-P-6020QK  Set basic position of camshafts  11.5.06

ENGINE  271.940 in MODEL 203.042 /242 /742, 209.342 /442
ENGINE  271.941 in MODEL 211.042 /242
ENGINE  271.946 in MODEL 203.046 /246 /746
ENGINE  271.948 in MODEL 203.040 /240 /740
ENGINE  271.942 in MODEL 203.043 /243 /743, 209.343
ENGINE  271.955 in MODEL 209.341 /441
ENGINE  271.956 in MODEL 211.041 /241
ENGINE  271.957 in MODEL 203.741

Shown on engine 271.940

1 Cylinder head cover
2 Belt pulley/vibration damper
3 Camshaft adjuster
A Guide edge on timing case cover
B Marking

Modification notes

18.4.05 The timing chain must not be removed from the intake camshaft. The timing chain is slackened only

<table>
<thead>
<tr>
<th></th>
<th>Removing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Open engine hood</td>
</tr>
<tr>
<td></td>
<td>Model 203</td>
</tr>
<tr>
<td></td>
<td>Model 209</td>
</tr>
<tr>
<td></td>
<td>Model 211</td>
</tr>
<tr>
<td>2</td>
<td>Remove cylinder head cover (1)</td>
</tr>
<tr>
<td></td>
<td>Model 203, 209</td>
</tr>
<tr>
<td></td>
<td>Model 211</td>
</tr>
<tr>
<td>3</td>
<td>Remove front cover at cylinder head</td>
</tr>
<tr>
<td>4</td>
<td>Spin engine at the crankshaft in direction of rotation until the piston of cylinder 1 is positioned at TDC marking ±2°</td>
</tr>
<tr>
<td></td>
<td>The TDC marking on belt pulley/vibration damper (2) must be aligned with the positioning edge (A) on timing case cover.</td>
</tr>
<tr>
<td></td>
<td>The cams of the inlet and exhaust camshaft at cylinder 1 must be positioned upright at an angle (arrows, picture 2).</td>
</tr>
</tbody>
</table>

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6. Remove camshaft adjuster (3)  
7. Mount retainer (4)  
8. Install camshaft adjuster (3)  
9. Clamp timing chain  
10. Dismount retainer (4)  
11. Rotate crankshaft by two revolutions in direction of rotation of engine and once again check basic position of camshafts  
12. Install front cover at cylinder head  
13. Install cylinder head cover (1)  
14. Check for leaks with engine running  
15. Close engine hood

Danger!  
- Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the running engine.
- Secure vehicle to prevent it from moving by itself.
- Wear closed and snug-fitting work clothes.
- Do not grasp hot or rotating parts.

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