Shown on engine 271.9

1. Positioning pin
2. Holding device
3. Camshaft adjuster

Remove/install

1. Remove cylinder head cover
2. Remove front cover from cylinder head
3. Crank engine at center bolt for the crankshaft in direction of rotation until piston of cylinder is positioned at ignition TDC.

The TDC marking on belt pulley/vibration damper must be aligned with positioning edge on timing case cover. Cams for the intake and exhaust camshaft at cylinder 1 must be positioned upright at an angle.

Installation: Inspect basic position of camshafts.

4. Mount retainer (2) over cutouts in the camshaft housing-top section.

5.1. Release timing chain Engine 271.9
5.2. Remove chain tensioner Engine 271.8

6. Remove center bolt and remove camshaft adjuster (3) at the same time unhinge timing chain and secure against falling down. The direction of loosening for center bolt on intake or exhaust camshaft is the same (see arrow).

Shown on engine 271.8

1. Positioning pin
3. Camshaft adjuster
Installation: Camshaft adjusters (3) do not require any particular adjustment as they feature a positioning pin (1). To avoid confusion, the camshaft adjusters (3) are marked with "A" for exhaust camshaft and with "E" for intake camshaft.

Engine 271.8

*271589001000
*BA05.20-P-1002-02A

Install in the reverse order

Camshaft, camshaft adjustment

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Engine 271.8</th>
<th>Engine 271.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA05.20-P-1002-02A</td>
<td>Center bolt, camshaft adjuster to camshaft</td>
<td>Stage 1 Nm 130</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stage 2 (\Delta^\circ) -</td>
<td>-</td>
</tr>
</tbody>
</table>

Holding device: 271 589 00 61 00
Wedge: 271 589 00 31 00
Wrench socket: 001 589 65 09 00
Wrench socket: 271 589 00 10 00