WARNING!

♦ DO NOT re-use fasteners that are worn or deformed in normal use.

♦ Some fasteners are designed to be used only once and are unreliable and may fail the second time. This includes, but is not limited to nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated and any other time when deemed necessary by inspection.

♦ To prevent contact corrosion, use only approved nuts, bolts and washers, etc. These fasteners have a special coating and are identified by green coloring.

CAUTION!

After installing hydraulic lifters, do not start the engine for about 30 minutes, otherwise the valves will strike pistons. Turn the crankshaft two complete revolutions by hand before starting engine.

Note:

_Cylinder heads with cracks between valve seats or between valve seat inserts and spark plug threads can continue to be used without reduced service life, if cracks are not wider than 0.3 mm (0.012 in.) or when no more than 4 turns of the spark plug threads are cracked._

Cylinder head cover, left, removing and installing

Removing
- Remove engine cover panel -arrows-. 
- Remove cover -2-. 

- Remove coolant expansion tank -arrows-. 
- Disconnect connector for coolant level sensor and set expansion tank aside. 

- Remove hose -1-. 
- Remove hose -2-. 
− Remove bracket -3-.  
− Disconnect connectors -4- from ignition coils.  
− Remove ignition coils -5-.  
− Remove cylinder head cover.  

**Installing**  
Install cylinder head cover in reverse order of removal but note the following:  

**Note:**  
Replace cylinder head cover gaskets if damaged.  

− Apply a small amount of sealant D 545 300 A2 to sealing points -arrows- on upper surface of cylinder head.  

**CAUTION!**  
Part numbers are listed here for reference only. Always check with your Parts department for the latest information.
- Tighten bolts for cylinder head cover crosswise and in sequence shown.

<table>
<thead>
<tr>
<th>Tightening torques</th>
<th>Nm</th>
</tr>
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<tbody>
<tr>
<td>Cylinder head cover to cylinder head</td>
<td>10</td>
</tr>
<tr>
<td>Ignition coil to cylinder head cover</td>
<td>10</td>
</tr>
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**Right cylinder head cover, removing and installing**

**Removing**

- Remove engine cover panel -arrows-.
- Remove cover -1-.
- Remove intake air duct for air cleaner.
Disconnect fuel supply and fuel return lines -1-.

Disconnect hose -2-.

Disconnect connectors -1- from ignition coils.

Remove bracket -2-.

Remove ignition coils -3-.

Disconnect crankcase breather hose.

Remove cylinder head cover.

**Installing**

Install cylinder head in reverse order of removal but note the following:

**Note:**

*Replace cylinder head cover gaskets if damaged.*
- Apply a small amount of sealant D 454 300 A2 to sealing points -arrows- on sealing surface of cylinder head.

- Tighten cylinder cover according to number sequence in illustration.

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