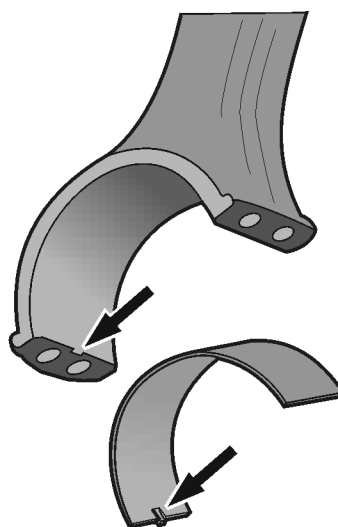


| Date | Group | No. | Page |
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Connecting Rod Bearings,
Replace (All)
D13F

Connecting Rod Bearings, Replace (All)



T2019310

Content

- "Connecting Rod Bearings, Replacement (All)" page 2

Note: Information is subject to change without notice.
Illustrations are used for reference only and may differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

2165-03-03-01 Connecting Rod Bearings, Replacement (All)

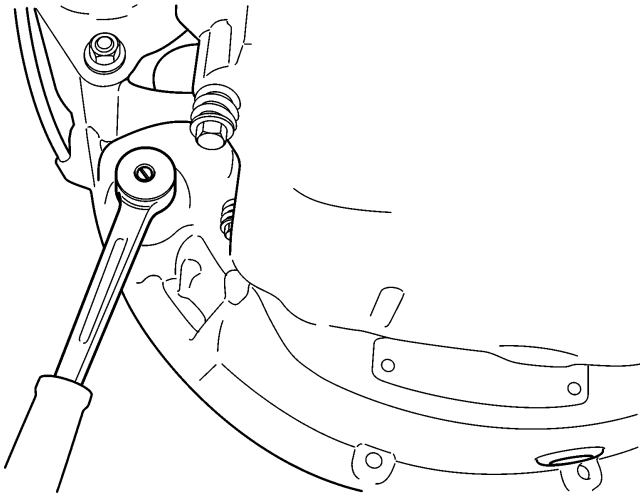
Oil pan removed

Special tools: 88800014

Other special equipment: 1159795

1
Remove the plug from the flywheel casing and install cranking tool 88800014.

88800014

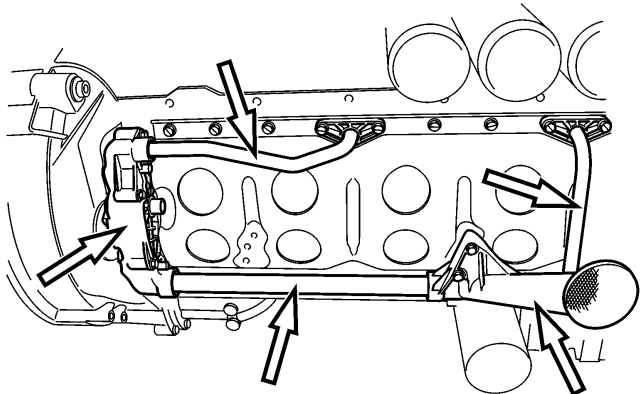


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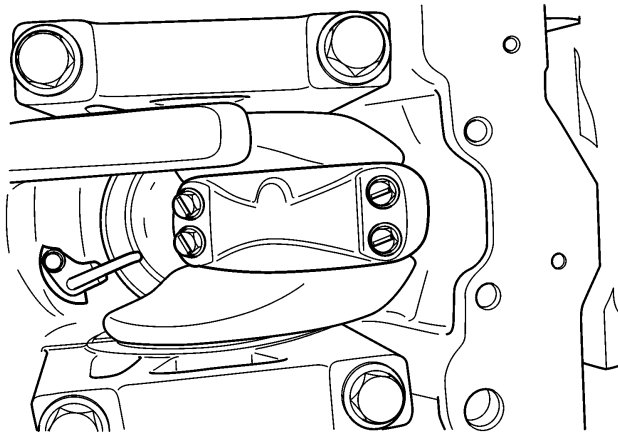
2
Remove the pipe and strainer from the reinforcement frame.
Remove the crossover pressure pipe.
Remove the pressure pipe from the pump.
Remove the reinforcement frame.

 **WARNING**

The reinforcement frame has sharp edges, use protective gloves to prevent hand injuries.



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- 3**
Turn the flywheel until the bearing caps on connecting rods 1 and 6 are in position for removing the bolts.

88800014

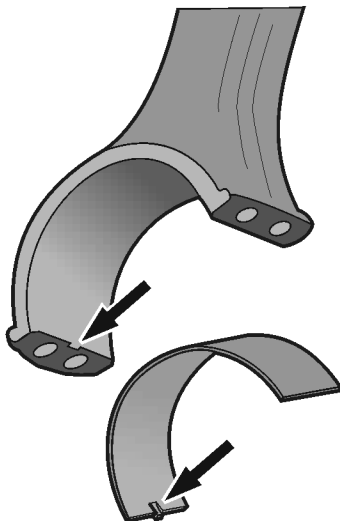
- 4**
Remove the piston cooling nozzles to prevent them from being damaged.

- 5**
Remove the caps. Push up the connecting rods as much as is needed to remove the big end shells.

Note: Check the bearing surfaces for uneven wear or other damage. If there is abnormal wear, the cause must be found before reassembly.

- 6**
Note: The bearing size is found on the back of the bearing shell.
Carefully clean the bearing contact on the connecting rods and bearing caps.
Clean the bearing seats and install new bearing shells.

- 7**
Lubricate the new bearing shells with clean engine oil.



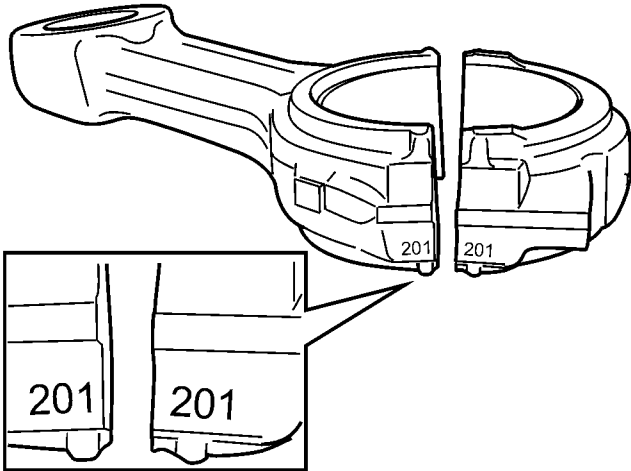
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8
Carefully pull the connecting rod (with new bearing) onto the crankshaft. Use caution not to damage the crankshaft.

9
Install the bearing caps.

Note: Ensure that the correct cap is fitted to the correct connecting rod (refer to the marks).

Tighten, alternately, until the surfaces meet. Torque tighten according to "Specifications", see Group 20.



T2019085


10
Install the piston cooling nozzle.

11
Turn the crankshaft until the next two connecting rods are in position for removing the bolts. Repeat the above procedure from step 4 through 10.

88800014

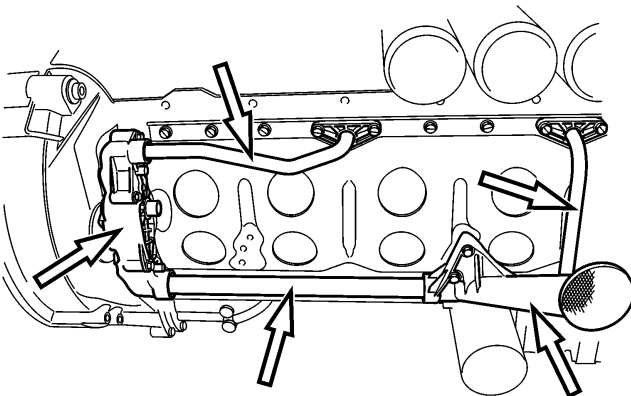
12
Install the oil pump to the main bearing cap. Torque tighten the bolts in accordance with the "Specifications"; see Group 20.

13
Install the reinforcement frame.

| |
|--|
|  WARNING |
| The reinforcement frame has sharp edges, use protective gloves to prevent hand injuries. |

Install the crossover pressure pipe with new bolts and gaskets.
Install the pressure pipe to the pump with new bolts and gaskets.
Torque tighten the reinforcement frame bolts according to the diagram; see "Specifications" group 20.
Install the pipe and strainer on the reinforcement frame using new seals.

Note: Apply thread lock to the bolts.



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14

Remove the cranking tool and reinstall the plug in the flywheel cover.