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# INTRODUCTION

## TO THE READER

- ❏ This manual was written for a skilled technician and contains all the technical information needed to repair this vehicle.
- ❏ Read this manual carefully for the information concerning repairing operations.
- ❏ For any question or comment, or should you notice any mistake concerning the content of this manual, please contact:

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Strada Settimo, 323
San Mauro Torinese (TO)
10099 ITALIA
PRODUCT SUPPORT
Fax ++39 011 0077357

## FURTHER REFERENCES

## PAGE NUMBER

- ❏ Every page carries a number on the top right corner. Every page contains the following information:

Example:: **T 1 – 2 – 3**

- → Progressive page number for each group
- → Group number (if any)
- → Section number
- → **S:** Safety rules
- → **T:** Technical section { Operation principle / Performance tests / Fault diagnosis
- **W:** Instruction section for excavator repairing
- **EW:** Instruction section for engine repairing

## SYMBOLS

This manual contains safety warning symbols and indications referring to possible injuries or vehicle damages.



This symbol regards safety.

Use great care when you see this symbol because possible injuries to the personnel may occur.

Strictly observe the precautions marked with this symbol.

The safety warning symbol is used also to draw attention on the weight of a component or an element.

Make sure you are always using the right equipment and lifting techniques when handling heavy loads, in order to prevent injuries or damages.

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Knock detected in the cylinder head —YES— Check the following items: operation play between the rocker arms and the valves; injection pump timing; valve timing. Adjust.

NO

Knock detected in the valve gear —YES— Check and replace (if necessary) the gears; moreover, check for broken springs, for excessive play between the stems and guides, the tappets and seats. Adjust the play between the valves and rocker arms.

NO

Knock detected in injectors —YES— Check and adjust as described in S.I. 1094, then replace.

NO

Knock detected in the engine flywheel —YES— Replace loose screws and tighten all screws to the specified torque and angles.

NO

Knock detected in the fuel piping —YES— Clean the pipes and replace the pipes that show evident dents; clean (if necessary) the injection pump.

| 8 | ENGINE STOPS |
|---|---|

Fuel tank filled — NO — Refuel and drain (if necessary).

YES

Fuel filters in working order — NO — Replace.

(to be continued)

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**Cylinder head of engine F4GE0484G**

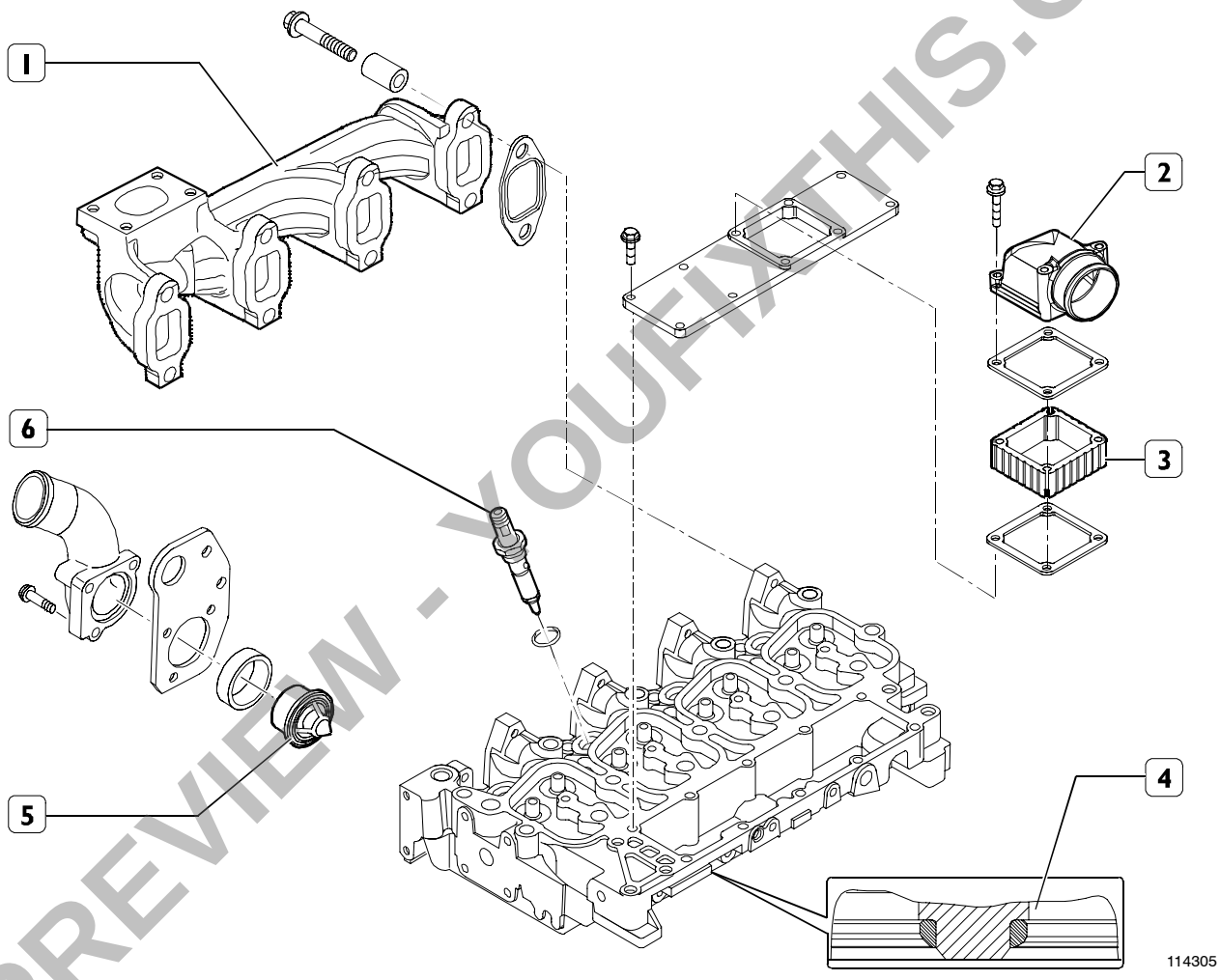
The seats of the following parts are obtained from the cast–iron cylinder head:

- ❑ inserted valve seats (4);
- ❑ injector (6);
- ❑ thermostat (5);

Moreover, the following components are inserted on the heads:

- ❑ single–block exhaust manifold (1);
- ❑ intake manifold (2) with seat for cold start air heater (3).

Figure 16

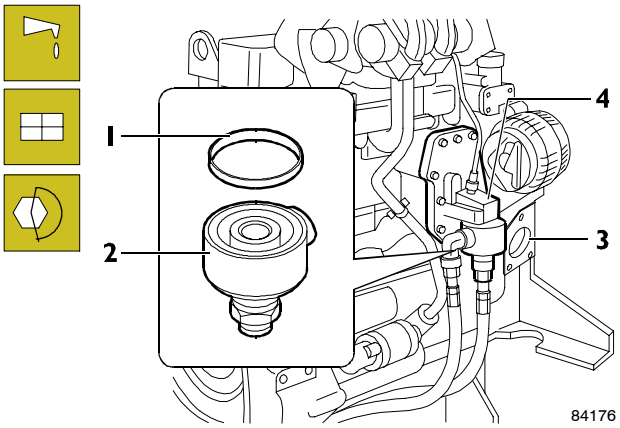



DETAIL OF CYLINDER HEAD WITH INSERTED VALVE SEATS

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Figure 164

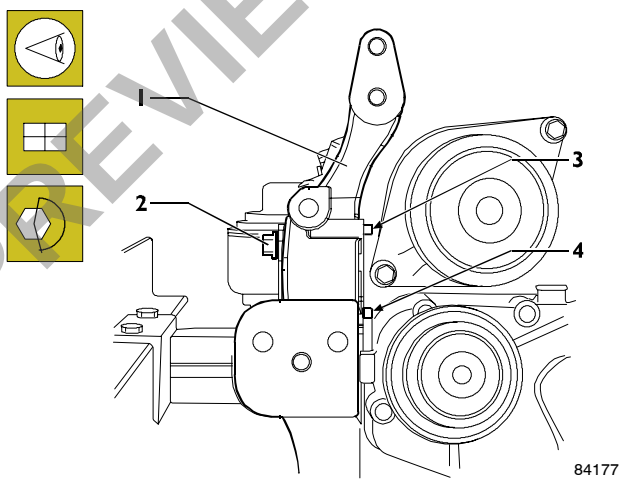



Lubricate seal ring (1) with engine oil, then position it on oil pipe coupling (2).

Fit oil pipe coupling (2) to support (4).

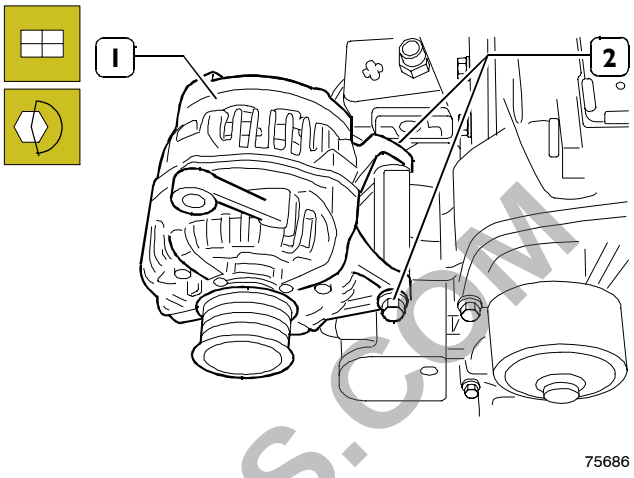
Place a new seal ring (3) in the crankcase housing.

Figure 165




Position alternator support (1) in such a way that pins (3 and 4) are placed against the engine crankcase. Fasten screws (2) and tighten them to the specified torque.

Figure 166



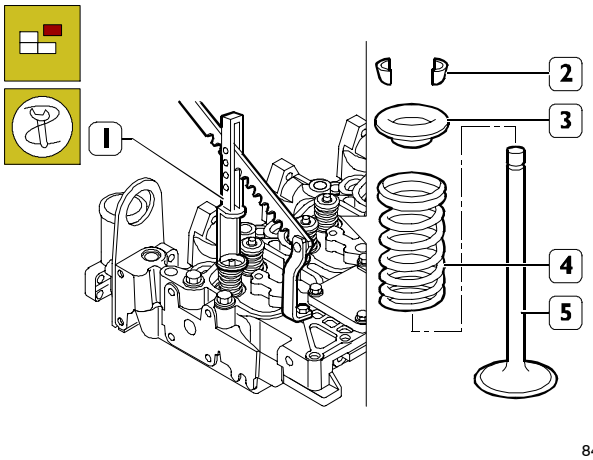

Connect the alternator (1) to the support.

Tighten the screw without locking it (2).

**Cylinder head**

**Removing the valves**

Figure 167




Valves can be removed by means of tool 380000987 (1) by pressing slightly on collar (3) so that lock cones (2) can be removed by compressing springs (4). Then remove collar (3) and springs (4).

Repeat the procedure on all valves.

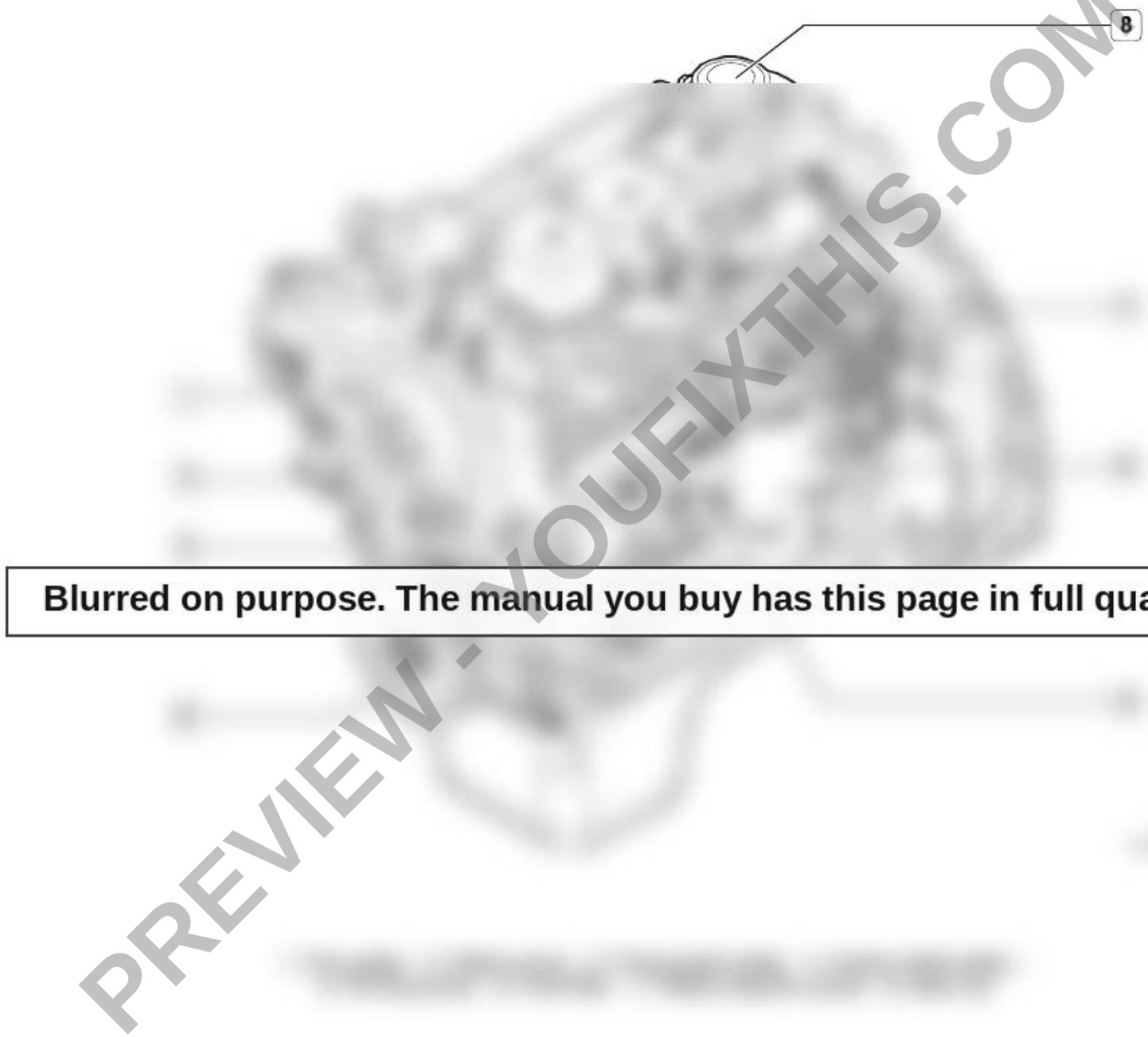
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## GENERAL REMARKS

### F4GE0404B ENGINE

Figure 4




Blurred on purpose. The manual you buy has this page in full quality.

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# RECHARGING AND START–UP



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