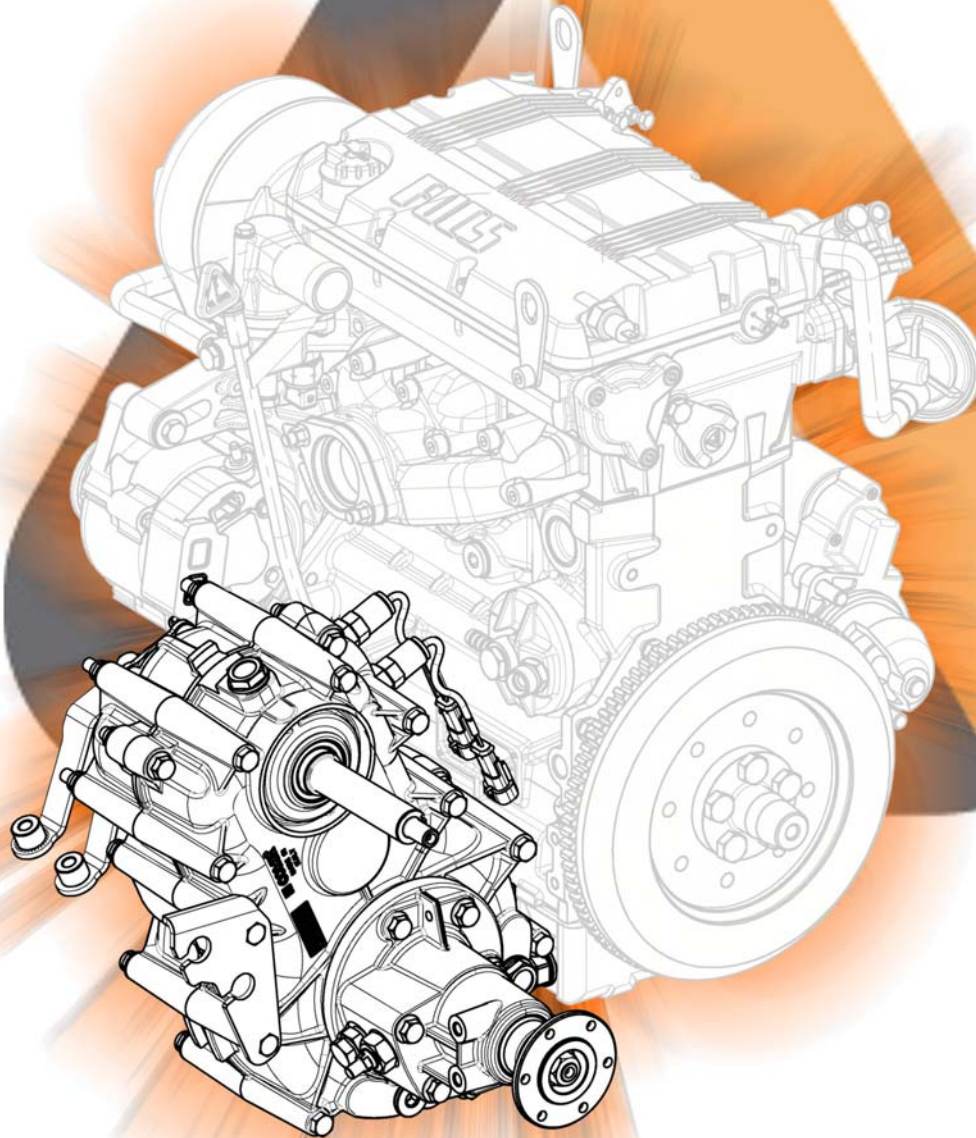


WORKSHOP MANUAL

GEARBOX

cod. 1-5302-826



UNI EN ISO 9001 - cert. n° 0446
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LOMBARDINI SERVICE
A KOHLER COMPANY

REGISTRATION OF MODIFICATIONS TO THE DOCUMENT

Any modifications to this document must be registered by the drafting body, by completing the following table.

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PREFACE

- Every attempt has been made to present within this service manual, accurate and up to date technical information.
However, development on the **LOMBARDINI** series is continuous.
Therefore, the information within this manual is subject to change without notice and without obligation.

- The information contained within this service manual is the sole property of **LOMBARDINI**.
As such, no reproduction or replication in whole or part is allowed without the express written permission of **LOMBARDINI**.

Information presented within this manual assumes the following:

- 1 - The person or people performing service work on **LOMBARDINI** series engines is properly trained and equipped to safely and professionally perform the subject operation;
 - 2 - The person or people performing service work on **LOMBARDINI** series engines possesses adequate hand and **LOMBARDINI** special tools to safely and professionally perform the subject service operation;
 - 3 - The person or people performing service work on **LOMBARDINI** series engines has read the pertinent information regarding the subject service operations and fully understands the operation at hand.
- This manual was written by the manufacturer to provide technical and operating information to authorised **LOMBARDINI** after-sales service centres to carry out assembly, disassembly, overhauling, replacement and tuning operations.
 - As well as employing good operating techniques and observing the right timing for operations, operators must read the information very carefully and comply with it scrupulously.
 - Time spent reading this information will help to prevent health and safety risks and financial damage.
Written information is accompanied by illustrations in order to facilitate your understanding of every step of the operating phases.

This manual contains the most important information for the repair **GEARBOX**.
 This information is current upto 15.03.2008.

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WARRANTY CERTIFICATE

- The products manufactured by **LOMBARDINI** Srl are warranted to be free from conformity defects for a period of 24 months from the date of delivery to the first end user.
- For engines fitted to stationary equipment, working at constant load and at constant and/or slightly variable speed within the setting limits, the warranty covers a period up to a limit of 2000 working hours, if the above mentioned period (24 months) is not expired.
- If no hour-meter is fitted, 12 working hours per calendar day will be considered.
- For what concerns the parts subject to wear and deterioration (injection/feeding system, electrical system, cooling system, sealing parts, non-metallic pipes, belts) warranty covers a maximum limit of 2000 working hours, if the above mentioned period (24 months) is not expired.
- For correct maintenance and replacement of these parts, it is necessary to follow the instructions reported in the documentation supplied with each engine.
- To ensure the engine warranty is valid, the engine installation, considering the product technical features, must be carried out by qualified personnel only.
- The list of the **LOMBARDINI** authorized dealers is reported in the "Service" booklet, supplied with each engine.
- Special applications involving considerable modifications to the cooling/lubricating system (for ex.: dry oil sump), filtering system, turbo-charged models, will require special written warranty agreements.
- Within the above stated periods **LOMBARDINI** Srl directly or through its authorized network will repair and/or replace free of charge any own part or component that, upon examination by **LOMBARDINI** or by an authorized **LOMBARDINI** agent, is found to be defective in conformity, workmanship or materials.
- Any other responsibility/obligation for different expenses, damages and direct/indirect losses deriving from the engine use or from both the total or partial impossibility of use, is excluded.
- The repair or replacement of any component will not extend or renew the warranty period.

LOMBARDINI warranty obligations here above described will be cancelled if:

- **LOMBARDINI** engines are not correctly installed and as a consequence the correct functional parameters are not respected and altered.
 - **LOMBARDINI** engines are not used according to the instructions reported in the "Use and Maintenance" booklet supplied with each engine.
 - Any seal affixed to the engine by **LOMBARDINI** has been tampered with or removed.
 - Spare parts used are not original **LOMBARDINI**.
 - Feeding and injection systems are damaged by unauthorized or poor quality fuel types.
 - Electrical system failure is due to components, connected to this system, which are not supplied or installed by **LOMBARDINI**.
 - Engines have been disassembled, repaired or altered by any part other than an authorized **LOMBARDINI** agent.
- Following expiration of the above stated warranty periods and working hours, **LOMBARDINI** will have no further responsibility for warranty and will consider its here above mentioned obligations for warranty complete.
- Any warranty request related to a non-conformity of the product must be addressed to the **LOMBARDINI** Srl service agents.

GENERAL SERVICE MANUAL NOTES

- 1 - Use only genuine Lombardini repair parts.
Failure to use genuine Lombardini parts could result in sub-standard performance and low longevity.
- 2 - All data presented are in metric format. That is, dimensions are presented in millimeters (mm), torque is presented in Newton-meters (Nm), weight is presented in kilograms (Kg), volume is presented in liters or cubic centimeters (cc) and pressure is presented in barometric units (bar).

SAFETY AND WARNING DECALS

- Important remarks and features of the text are highlighted using symbols, which are explained below:

**Danger – Attention**

This indicates situations of grave danger which, if ignored, may seriously threaten the health and safety of individuals.

**Caution – Warning**

This indicates that it is necessary to take proper precautions to prevent any risk to the health and safety of individuals and avoid financial damage.

**Important**

This indicates particularly important technical information that should not be ignored.

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