



REPAIR MANUAL

ZF – MULTITRAC

MT-L 3085 II / 3095 II

REPAIR MANUAL

for ZF - Multitrac

MT-L 3085 II / 3095 II

IMPORTANT INFORMATION:

Due to the great variety of ZF units it is necessary to limit disassembly and reassembly manuals to a current ZF production unit. Continuous technical upgrading of the ZF units and extensions concerning design options may require differing operations which can be carried out by qualified specialists without greater difficulties by means of the perspective views included in the corresponding spare parts lists.

This disassembly and reassembly manual is based on the design level of a ZF production unit at the time of issue of the manual.

ZF Friedrichshafen AG reserves the right to replace this disassembly and reassembly manual by a successive edition at any time without advance notice. Upon request, ZF Friedrichshafen AG will advise which edition is the latest one.

Any maintenance work is to be done in accordance with ZF's Lubrication and Maintenance Instructions (ZF-order no: 5871 529 902) and ZF's List of Lubricants TE-ML 05!

The ZF list of lubricants is being continuously updated and can be obtained or viewed as follows:

- at all ZF plants
- at all ZF service organizations
- Internet www.zf.com

CAUTION:

Observe the vehicle manufacturer's instructions and specifications for the installation and commissioning of the unit!

ZF Friedrichshafen AG

ZF Services

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This document is a translation of the German original.

With the reserve of technical modifications!

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PREFACE

This documentation has been developed for specialized staff trained by ZF Friedrichshafen AG for repair and maintenance work to be done on ZF units.

This documentation describes a ZF series product with a design level valid at the date of edition.

Due to the continuous technical upgrading of the product, however, the repair of the unit at your disposal may require both deviating work steps and differing setting and testing data.

We would therefore recommend you to entrust masters and servicemen with the work on your ZF product whose practical and theoretical training is constantly updated in our training school.

The Service Stations established by ZF Friedrichshafen AG all over the world offer you:

- 1. Permanently trained staff**
- 2. Specified equipment, e.g. special tools**
- 3. State-of-the-art genuine ZF spare parts**

All work is done there with utmost care and reliability.

In addition, repair work carried out by ZF Service Stations is covered by the ZF warranty within the terms of the currently applicable contractual conditions.

Any damage resulting from work which is done in an improper and unprofessional manner by third parties and any consequential costs incurred are excluded from this contractual liability.
This shall also be applicable if other than genuine ZF spare parts are used.

This manual is based on the state-of-the-art at the time of printing.
It was prepared with utmost care in order to avoid errors.
However, we shall not be liable for any errors in figures or descriptions.

ZF Friedrichshafen AG

GENERAL

The Service Manual covers all work required for disassembly and the relating reassembly.

When repairing the unit, ensure utmost cleanliness and excellent workmanship. Dismantle the unit only if any damaged parts must be replaced. After removing screws or nuts, loosen lids and housing parts which were installed with seals by slight blows with a plastic hammer. Use suitable pulling devices for removing parts being tightly installed on the shafts, such as bearings, bearing rings and similar.

Carry out disassembly and reassembly work on a clean working place. Use special tools which have been developed for this purpose. Prior to reinstallation of the parts, clean contact faces of housings and lids from residues of seals. Remove any burrs or similar irregularities with an oil stone. Clean housings and end covers, in particular corners and angles, with a suitable detergent. Damaged or heavily worn parts must be replaced, with an expert assessing whether parts subject to normal wear during operation, such as bearings, thrust washers etc. will be reinstalled.

Parts such as seal rings, locking plates, split pins etc. must generally be replaced. Radial seal rings with worn or broken sealing lip must also be renewed. In particular, ensure that no chips or other foreign bodies remain in the housing. Check the lube oil holes and grooves regarding unhindered passage.

Oil according to the relating List of Lubricants shall be applied to all bearings prior to their installation:

NOTE: Only a heating furnace or an electric drier is permitted for heating parts such as bearings, housings, etc.!
Parts fitted in heated state must be readjusted after cooling down to ensure a perfect contact.

CAUTION

When assembling the unit, exactly observe the tightening torques and setting data indicated in the manual. Tighten screws and nuts according to the enclosed standard table, unless otherwise specified.

When fitting snap rings and retaining rings, pay attention to an exact contact in the grooves!

NEVER wash disks having organic friction linings (e.g. paper disks) since this would have an adverse effect on lining adhesion.

Only dry cleaning is permitted (leather cloth).



DANGER

When using detergents, observe the manufacturer's instructions regarding their handling.

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Service Manuals from 2\$