

# SERVICE MANUAL

**T9.435 / T9.480 / T9.530 / T9.565**

**T9.600 / T9.645 / T9.700**

**Tier 4B (final)**

**Tractor**

*PIN ZEF400001 and above*

Part number 47680535

1<sup>st</sup> edition English

March 2014





## **SERVICE MANUAL**

**T9.435 Europe heavy duty wheeled model [ZEF400001 - ] , T9.480 Europe heavy duty wheeled model [ZEF400001 - ] , T9.530 Europe heavy duty wheeled model [ZEF400001 - ] , T9.530 Europe wheeled scraper model [ZEF400001 - ] , T9.565 Europe heavy duty wheeled model [ZEF400001 - ] , T9.600 Europe heavy duty wheeled model [ZEF400001 - ] , T9.600 Europe wheeled scraper model [ZEF400001 - ] , T9.645 Europe wheeled model [ZEF400001 - ] , T9.645 Europe wheeled scraper model [ZEF400001 - ] , T9.700 Europe heavy duty wheeled model [ZEF400001 - ]**

## Link Product / Engine

<b>Product</b>	<b>Market Product</b>	<b>Engine</b>
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F2CFE614A*B
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F3HFE613G*B001
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F3HFE613B*B001
null Europe wheeled scraper model [ZEF400001 - ]	Europe	F3HFE613B*B001
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F3HFE613B*B001
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F3DFE613J*B001
null Europe wheeled scraper model [ZEF400001 - ]	Europe	F3DFE613J*B001
null Europe wheeled model [ZEF400001 - ]	Europe	F3DFE613G*B001
null Europe wheeled scraper model [ZEF400001 - ]	Europe	F3DFE613G*B001
null Europe heavy duty wheeled model [ZEF400001 - ]	Europe	F3DFE613F*B001

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# INTRODUCTION

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## **Foreword - Important notice regarding equipment servicing**

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The information in this manual is up-to-date at the date of the publication. It is the policy of the manufacturer for continuous improvement. Some information could not be updated due to modifications of a technical or commercial type, or changes to the laws and regulations of different countries.

In case of questions, refer to your NEW HOLLAND Sales and Service Networks.

## Safety rules


### Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.**

### Machine safety

**NOTICE:** Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

### Information

**NOTE:** Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

---

## Safety rules - Personal safety

### General safety rules

Use caution when operating the machine on slopes. Raised equipment, full tanks and other loads will change the center of gravity of the machine. The machine can tip or roll over when near ditches and embankments or uneven surfaces.

Never permit anyone other than the operator to ride on the machine.

Never operate the machine under the influence of alcohol, drugs, or while otherwise impaired.

While driving on the road, the seat swivel position must always be straight forward and locked in position with no rotation. The seat swivel should only be rotated for in field operation.

Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling."

Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur, and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends.

Do not exceed implement transport speed or the speed rating on the implement tires. Review the implements Operator's Manual for specifications. Failure to comply could result in death or serious injury.

For speeds up to **16 km/h (10 mph)**, make sure that the weight of a trailed vehicle that is not equipped with brakes does NOT EXCEED 1.5 times the Tractor weight. For speeds up to **40 km/h (25 mph)**, make sure that the weight of the trailed vehicle that is not equipped with brakes, does NOT EXCEED the weight of the Tractor. Stopping distance increases with increasing speed as the weight of the towed load increases, especially on hills and slopes.

Rear upset can result if pulling from wrong location on tractor. Hitch only to the drawbar. Use three point hitch only with the implements designed for its use – not as a drawbar.

Do not look directly into the front or rear HID (high intensity discharge) lamps. Eye damage can occur.

Do not tamper with the ballast on the front or rear high intensity discharge (HID) lamp since it uses high voltage. Personal injury or death can occur.

To avoid possible eye damage from microwave signals emitted by the radar sensor, do not look directly into the sensor face.

When digging or using ground engaging attachments be aware of buried cables. Contact local utilities to determine the locations of services.

Pay attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety.

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin, causing serious injury or infection.

- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.
- Stop engine, remove key and relieve the pressure before connecting or disconnecting fluid lines.
- Make sure all components are in good condition and tighten all connections before starting the engine or pressurizing the system.
- If hydraulic fluid or diesel fuel penetrates the skin, seek medical attention immediately.
- Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.

Keep clear of moving parts. Loose clothing, jewelry, watches, long hair, and other loose or hanging items can become entangled in moving parts.

Wear protective equipment when appropriate.

DO NOT attempt to remove material from any part of the machine while it is being operated or components are in motion.

Make sure all guards and shields are in good condition and properly installed before operating the machine. Never operate the machine with shields removed. Always close access doors or panels before operating the machine.

Dirty or slippery steps, ladders, walkways, and platforms can cause falls. Make sure these surfaces remain clean and clear of debris.

A person or pet within the operating area of a machine can be struck or crushed by the machine or its equipment. DO NOT allow anyone to enter the work area.

Raised equipment and/or loads can fall unexpectedly and crush persons underneath. Never allow anyone to enter the area underneath raised equipment during operation.

Never operate engine in enclosed spaces as harmful exhaust gases may build up.

Before starting the machine, be sure that all controls are in neutral or park lock position.

Start the engine only from the operator's seat. If the safety start switch is bypassed, the engine can start with the transmission in gear. Do not connect or short across terminals on the starter solenoid. Attach jumper cables as described in the manual. Starting in gear may cause death or serious injury.

Always keep windows, mirrors, and all lighting clean to provide the best possible visibility while operating the machine.

Operate controls only when seated in the operator's seat, except for those controls expressly intended for use from other locations.

Before leaving the machine:

1. Park machine on a firm level surface.
2. Put all controls in neutral or park lock position.
3. Engage park brake. Use wheel chocks if required.
4. Lower all hydraulic equipment — Implements, header, etc.
5. Turn off engine and remove key.

When, due to exceptional circumstances, you would decide to keep the engine running after leaving the operator's station, then the following precautions must be followed:

1. Bring the engine to low idle speed.
2. Disengage all drive systems.

3. **▲ WARNING**

**Some components may continue to run down after disengaging drive systems.**

**Make sure all drive systems are fully disengaged.**

**Failure to comply could result in death or serious injury.**

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Shift the transmission into neutral.

4. Apply the parking brake.



## **SERVICE MANUAL**

### **Engine**

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## **Engine - 10**

### **Engine and crankcase - 001**

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### Engine and crankcase - 001

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(\*) See content for specific models

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