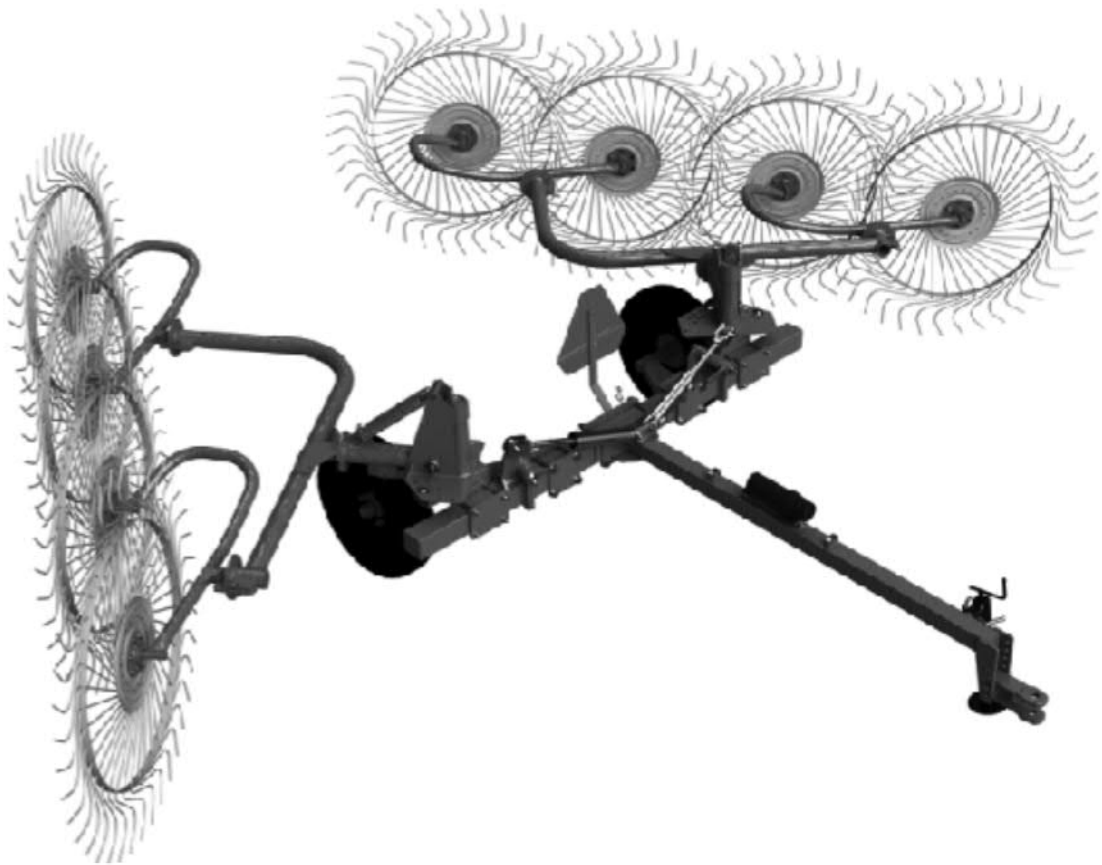




# CARTED WHEEL RAKE

WR0008 - WR0010 - WR0012



**OPERATOR'S MANUAL**

5EP1017480 (10/02/15)



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## A. INTRODUCTION

### A.1 About the manual

The FRONTIER firm ("Manufacturer") designed and created the device in accordance with the associated safety standards to ensure the safety of personnel and the entire operating system.

Each rake is supplied with a copy of this manual which the operator must read in full before using the equipment. The manual contains all information relating to transportation, use and maintenance of the equipment, as well as safety instructions.

Poor knowledge of the operating system can lead to accidents and therefore damage to the equipment. Although the Manufacturer provides the Customer with all information relating to the rake operation, use and maintenance, the Customer is still expected to read this manual and take note of all the instructions herein.

The manual provides all the necessary instructions on how to ensure optimal working order and safety.

The manual was drawn up according to the current technical and structural characteristics of three models of rake and does not cover previous similar models. The Manufacturer therefore reserves the right to modify models in production in the interest of improvement or due to any new legislation (Machinery Directive), without being obliged to modify previous models.

This manual is integral to the rake and must therefore be kept intact, clean and in good condition. It should also be in a container, either on the frame of the rake or in the tractor cabin, where it can be easily accessed for consultation.

The manual must be kept in its container if the rake is taken out of service. Ask the Manufacturer for a duplicate copy if the original manual is lost.

Please contact the FRONTIER Dealer for any clarifications relating to the instructions in this manual.

Symbols used in this manual:

### **HAZARD or DANGER**

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury;

### **WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. It is also used to alert against unsafe practices.

### **CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It is also used as a reminder of good safety practices.

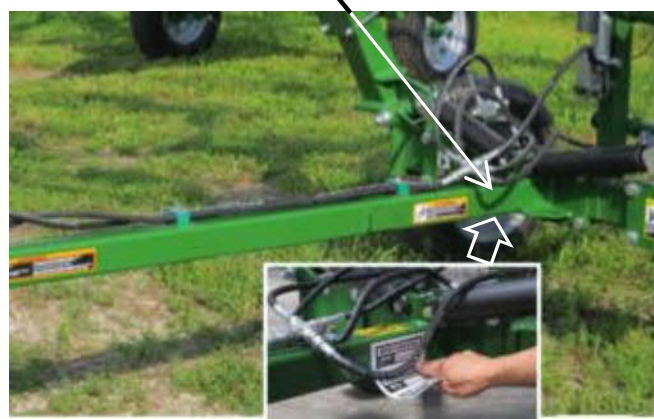
### **IMPORTANT**

The operator must take the respective information into account.

**Note** indicates that the information referred to can facilitate the operator work.

### A.2 Identification

An identification plate is affixed to each machine:



You must have this information at hand when requesting assistance and spare parts.

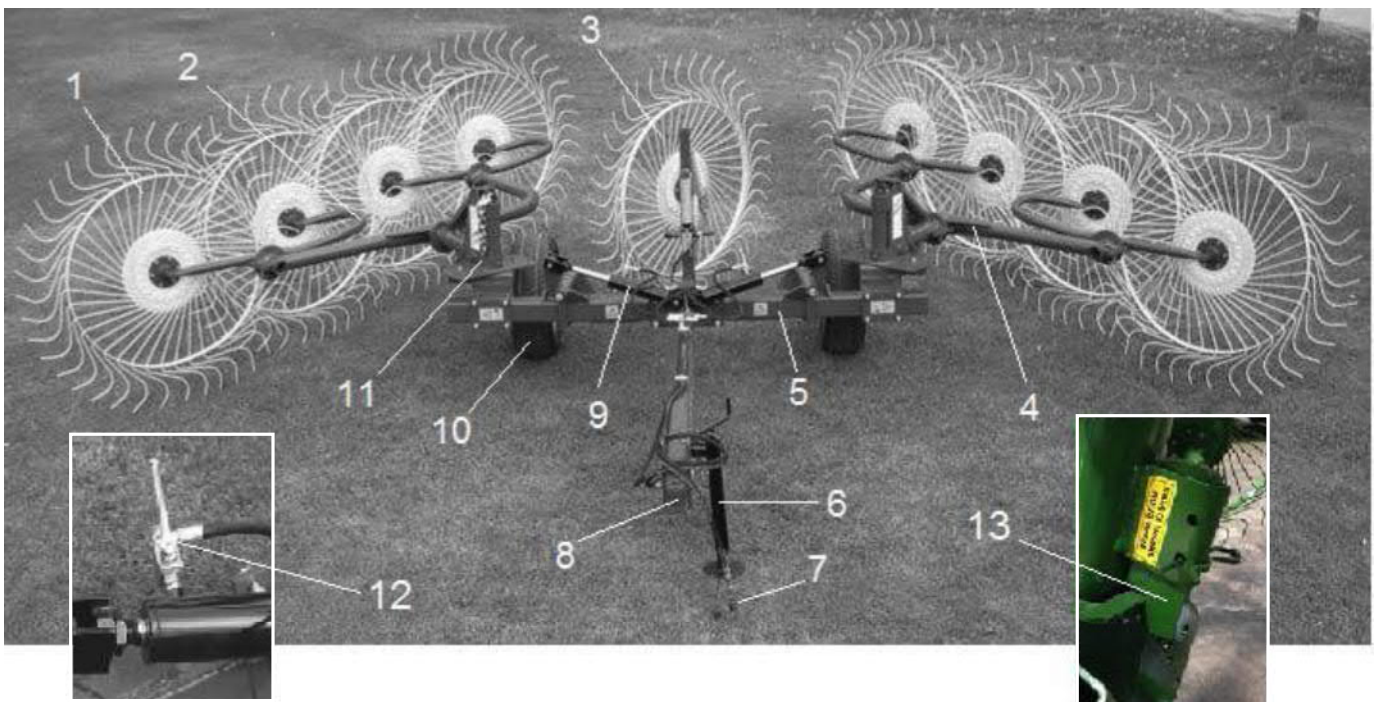
### **IMPORTANT**

It is strictly forbidden to alter and/or eliminate the data on the serial plate. The operator must check the legibility of the data on a regular basis and inform the Manufacturer if it becomes in any way illegible.

The Manufacturer will then replace the old plate with a new one bearing the same data.

### A.3 Main components and technical data

1. Toothed wheel
2. Arm with hubs
3. Additional center wheel (kicker wheel)
4. Arm support
5. Fixed frame
6. Bearing jack
7. Hydraulic quick couplings
8. Tractor hitch
9. Hydraulic cylinder for folding the side units
10. Tire
11. Moveable frame
12. Hydraulic valve
13. Frame locking bracket



Model	Wheels			Width		Tires			HP	Weight
	N°	Teeth	Ø cm / ft	Work cm / ft	Transport cm / ft	Type	N°	Pressure psi / bar		
<b>WR0008</b>	8	40	140 / 55"	540 / 17" 8'	250 / 8" 2'	205/70 R 15	2	43.5 / 3	30	600 / 1324
<b>WR0010</b>	10	40	140 / 55"	640 / 21"	250 / 8" 2'	205/70 R 15	2	43.5 / 3	30	667 / 1470
<b>WR0012</b>	12	40	140 / 55"	740 / 24" 5'	250 / 8" 2'	205/70 R 15	2	43.5 / 3	30	737 / 1624

## B. SAFETY

### B.1 General rules

This manual describes the safety regulations to be followed when using the rake. As most work-related accidents occur due to non-compliance with the most basic of safety regulations, **it is obligatory** to read this manual before using the rake and to follow all the instructions.

The equipment must be used by qualified adult personnel trained in its use. **The Manufacturer cannot be held liable for accidents due to the operator's negligence and/or non-compliance with the safety instructions. In this case the Manufacturer assumes no responsibility and the warranty is forfeited.**

### B.2 Transportation, Installation and Movement

- **Transportation** (delivery): the device is fully dismantled and placed in a crate for transportation. The Frontier Dealer can then re-assemble the parts quickly and easily on receipt, following the detailed instructions.

If the rake is sold or handed over to another user, the rake can be dismantled by following the instructions in reverse order, although it can also be delivered fully assembled. If the distance and conditions are such that the rake cannot be transported by road hitched to the tractor, it can be easily put on a suitable means of transport, as illustrated below.

The rake is loaded or unloaded via a ramp attached to the vehicle. The equipment, when ready for transportation, is reversed onto the vehicle, then harnessed in place and fitted with all necessary safety devices for transportation.

#### IMPORTANT

Do not forget that, for transportation and handling, the rake must be in its **transport configuration** as described in the chapter "Moving the rake".

## ! WARNING

**Loading and unloading can involve a certain element of risk and must be carried out taking all due precautions.**

**Always take the following precautions:**

- Loading/unloading must be carried out on a flat surface and at a safe distance from slopes or ditches;
- Always make sure the ramps are strong enough to withstand the rake weight (see the specification table shown in this manual), are firmly attached to the vehicle and are parallel to each other and perpendicular with the edge of the vehicle;
- Ensure the ramps are clean, without any traces of oil, grease or ice;
- Never change direction when moving the rake onto or off the vehicle. If necessary, move the rake back down the ramp to turn it around.
- **Installation:** the rake must only ever be attached to an agricultural tractor with hitch, auxiliary universal three-point coupling and hydraulic lift.

#### IMPORTANT

The tractor must also, by law, be fitted with a protective roll-bar or ROPS or FOPS cabin. **It is strictly forbidden to install the rake on a tractor without the required protection equipment.**

Prior to installation, however, the Customer must check the tractor operating and maintenance manual to make sure the tractor is compatible with rake, and whether ballasts are needed to prevent unbalance that could cause it to tip over.

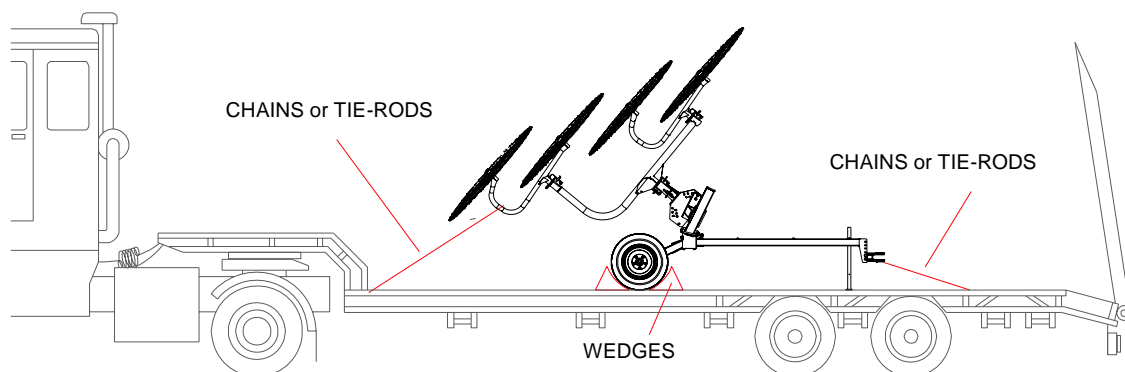


Fig.2



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