

# WHEEL RAKE

**WR5417**



**FRONTIER**

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## INTRODUCTION

Thank-You for choosing the Frontier WR5417 Wheel Rake. Your rake is the result of years of research and development work. This Operator's Manual will familiarize the operator with the safety and operation of the machine. Included are complete instructions for safe and efficient operation, lubrication, and maintenance procedures. Understanding and following these procedures will result in years of maximum performance from your rake.

***Read entire manual before operating. Failure to follow the instructions outlined in this manual may result in personal injury and/or damaged equipment, and could void the warranty.***

### Rake Serial Number

The rake's serial number can be found under the main frame on the left side of the machine. Please use this number when requesting service, seeking information, or ordering parts. For the operator's convenience, space to record the serial number, model number, purchase date, and dealer has been provided inside the front cover of this manual.

***All pictures and instructions in this manual assume that the right and left side of the machine are that of someone standing behind the rake facing forward.***

### Specifications

<b>Specifications</b>	<b>WR5417</b>
Raking Width	29'
Transport Width	12' 4"
Weight	5450 lbs.
Wheel Diameter	52"
Number of Wheels	17
Tines	18 Double Rubber Mounted Tines (36 Teeth) per Wheel
Rake Wheel Hubs	Heavy Duty Tapered Bearings (2 sets per wheel)
Rake Wheel Covers	UV Resistant HDPE Poly Sheets
Anti Hay Wrap	Standard
Axles	Tandem w/ 2" Removable Spindles
Tires	P255/70R15
Lighting	Optional
Bridge Frame Cylinder	(2) 60" Stroke Cylinders

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## SAFETY

-  ***This symbol precedes specific safety instructions throughout this manual. When reading the manual pay close attention to the information that follows this symbol***
-  FAILURE TO FOLLOW INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY OR DEATH. READ ENTIRE MANUAL BEFORE OPERATING THE RAKE.
-  Keep hands, feet, and clothing away from all moving parts.
-  Never allow anyone to ride on the rake or the tractor.
-  Be constantly aware of the location of the ends of the rake to avoid collision with other objects.
-  When transporting the machine on public roads use the proper reflectors, lights, and slow moving vehicle signs required by local government agencies.
-  Stop the tractor engine, remove ignition key, and allow all mechanisms to stop before cleaning, adjusting, or lubricating the machine.
-  Stay clear of the rake when opening or closing the main rake arm beams, or raising or lowering the rake wheels.
-  Stay clear of hydraulic lines, they may be under extreme pressure or heat. Never go near a hydraulic leak until the pressure has been relieved and the leaking has stopped. A high pressure hydraulic leak can easily penetrate your skin and cause serious injury, gangrene or death.

We try to provide safety locks, shields and guards wherever possible, however, it is impossible to shield every area that is potentially dangerous. Frontier will not be responsible for carelessness and misuse of this equipment.



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# SAFETY

## Safety Decals


*Decals and reflectors are for the protection of yourself and others. If they are missing, faded, or not readable, get replacements from your dealer immediately.*



**⚠ WARNING**

Do not exceed this Implement's maximum transport speed of 32km/h (20mph).  
Exceeding this speed may result in loss of control during transport or braking and serious injury or death.

Transport only with a properly ballasted tractor and a properly attached safety tow chain. Do not transport with a motor vehicle. Reduce speed and use additional caution when on inclines, towing under adverse surface conditions, and turning.



**⚠ WARNING**

High-Pressure hydraulic oil leaks can penetrate skin resulting in serious injury, gangrene, or death.

- Check for leaks with cardboard; never use hand.
- Before loosening fittings: Lower load, release pressure, and be sure oil is cool.
- Consult physician immediately if skin penetration occurs.

**⚠ CAUTION**

To avoid serious injury:


- Read Operator's Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions. (Manuals are available from your selling dealer.)
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from tractor seat only.
- Keep all shields in place and good condition.
- Lower equipment to ground, stop engine, remove key and set brake before dismounting tractor.
- Never allow children or untrained persons to operate equipment.





**⚠ WARNING**

Avoid serious crushing injury when closing or opening rake.  
Make sure bystanders are clear of rake before closing or opening.



**⚠ WARNING**

Avoid serious injury from crushing or pinning.  
Install cylinder lockups before transporting, servicing, or storing machine.



**⚠ WARNING**

Avoid unexpected opening of the rake while transporting.  
Install transport locks before transporting.  
Failure to install transport locks could result in serious injury.