

OPERATOR'S MANUAL

ROTARY RAKE

RR2211



FRONTIERTM

5PQ990105 (06/30/2015)

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INTRODUCTION

Thank-You for choosing the Frontier Rotary 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 assembly, operation, lubrication, and maintenance procedures. Understanding and following these procedures will result in years of maximum performance from your Frontier 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 near the front on the main frame of the rake. 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



Specifications	RR2211	RR2109
Working Width	13' (4.3m)	10' 8" (3.2m)
Raking Width	11' (3.3m)	9' (2.7m)
Transport Width	59" (1.5m)	9' 4" (2.8m)
Gear Box	Enclosed Oil Bath	
Gear Reduction	9.7 to 1	
Tine Arms	11	9
Double Tines per Arm	4	3
PTO/HP Required	40 HP - 540 RPM	30 HP - 540 RPM
Direction of Raking Action	Left	
Hydraulic Requirement	1200 psi	
Weight	1550 lbs.	1050 lbs.
Tandem Axle Beam	Standard	
Tires	18.5 x 8 Flotation Tires on 4-Bolt Painted Wheels	

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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 ROTARY RAKE.
-  Keep hands, feet and clothing away from the machine's input power take-off (PTO) and any other moving parts until the machine has been shut down and the power source has been locked out. (Refer to Power Source Safety)
-  Do not adjust, unclog, lubricate, or service the machine until it has been shut down and the power source has been locked out. (Refer to Power Source Safety)
-  Do not lubricate or adjust the machine while it is in motion.
-  Support the rake securely while working under it.
-  Do not stand between the tractor and the rake while attaching or detaching the rake unless the tractor engine is shut off and the parking brake has been set.
-  Be certain all bystanders and animals are a safe distance away from the rake before raising or lowering it. Never allow anyone to ride on the rake or the tractor.
-  When transporting, never exceed a speed of 20 MPH (32 km/hr.) and avoid sudden turns which may compromise the operator's control of the tractor.
-  Be constantly aware of the location of the ends of the rake to avoid collision with other objects.
-  When moving the rake on public roads use the proper reflectors, lights, and slow moving vehicle signs required by local government agencies.

Power Source Safety

-  Do not use a power take-off (PTO) shaft without a rotating shield in good working order. Make sure drive system safety shields are in place for both the power source and the rake.
-  The rake input PTO must be securely attached to both the power source and the input shaft.
-  Do not overextend the input PTO shaft.
-  Make sure PTO is disengaged before starting power source.
-  PTO shield chains must be attached to the tractor and the rake to keep the shield from rotating.



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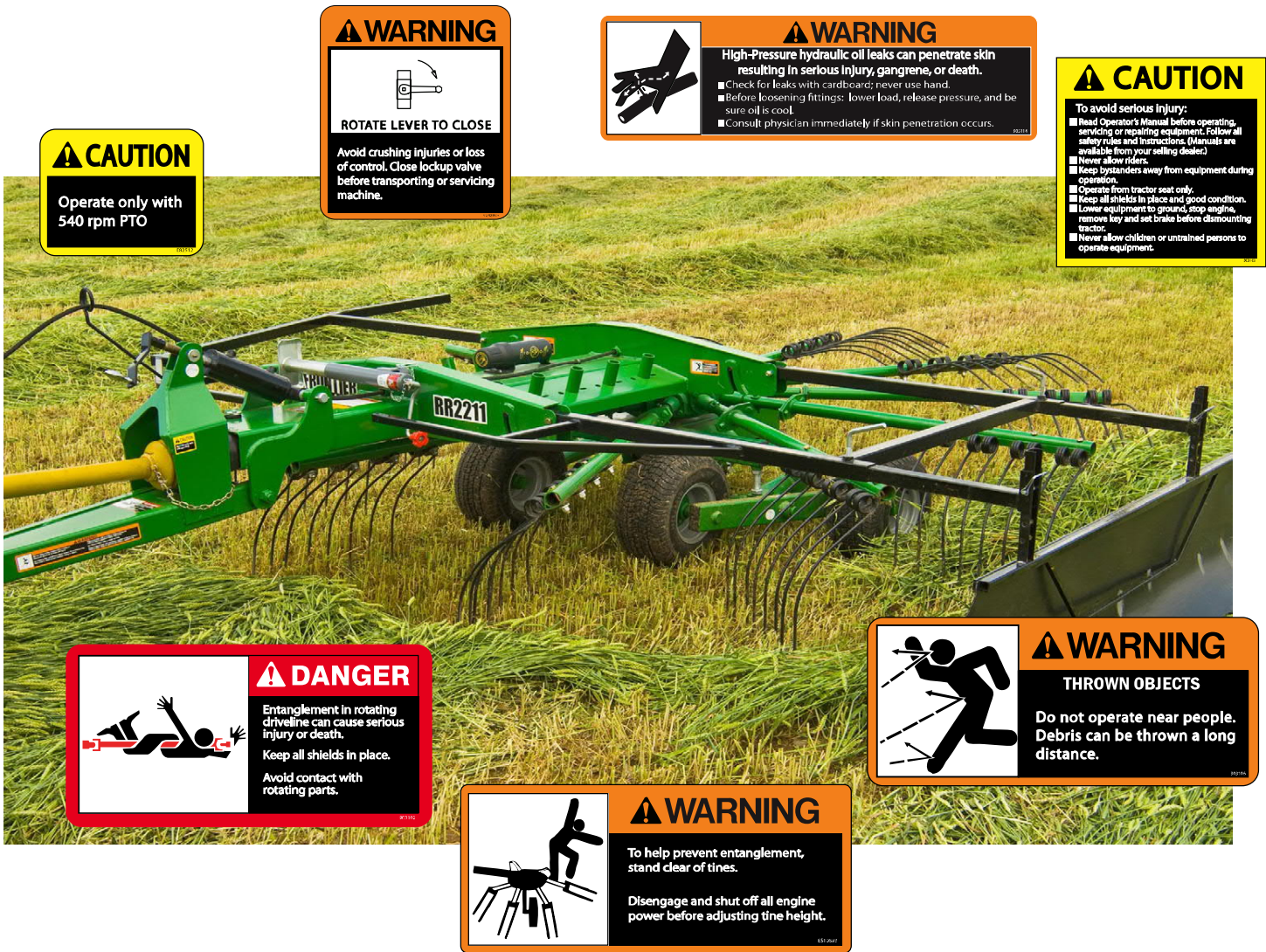
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Thank you so much for reading

SAFETY CONT'D

Safety Decals and Reflectors

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.



CAUTION
Operate only with 540 rpm PTO

WARNING
ROTATE LEVER TO CLOSE
Avoid crushing injuries or loss of control. Close lockup valve before transporting or servicing machine.

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.

DANGER
Entanglement in rotating driveline can cause serious injury or death.
 Keep all shields in place.
 Avoid contact with rotating parts.

WARNING
To help prevent entanglement, stand clear of tines.
 Disengage and shut off all engine power before adjusting tine height.

WARNING
THROWN OBJECTS
Do not operate near people. Debris can be thrown a long distance.

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.