OPERATOR'S AND PARTS MANUAL

BUCKET LOADER ATTACHMENTS

| AD11 | AD12 | AM11 | AR10 | AR12 | AY11



MANUAL #5MP76314 **3FRONTIER**

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PREFACE

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your attachment. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance.

These instructions have been compiled from field experience and engineering data. Some information may be general in nature, due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to you particular situation.

The illustrations and data used in this manual were current at the time of printing. However, due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the tractor facing the direction of forward travel.



ILEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le truduzca lasmedidas de seguridad.

WARNING! Never let anyone operate this unit without reading the "Safety Precautions" and "Operations" sections of this manual.

Always choose hard, level ground to park the loader on and set the brake so the unit cannot roll.

BEFORE OPERATION

The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understand this manual. If there is any portion of this manual or function you do not understand, contact your local Frontier Dealer.

SERVICE

When servicing your product, remember to use only manufacturer replacement parts. Substitute parts may not meet the standards required for safe, dependable operation.

To facilitate parts ordering, record the model and serial number of your unit in the space provided on this page. This information may be obtained from the identification plate located on the product.

Any questions related to this attachment should be directed to your local Frontier dealer.

MODEL:	DATE:
	
SERIAL NUMBER:	(See parts section for location.)

SAFETY STATEMENTS



THIS SYMBOL BY ITSELF OR WITH A WARNING WORD THROUGHOUT THIS MAN-UAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY OR THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.



DANGER THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH
WILL RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.



WARNING THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH

COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.



CAUTION

THIS SIGNAL WORD IS USED WHERE MINOR INJURY COULD RESULT IF

THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

NOTICE

NOTICE INDICATES A PROPERTY DAMAGE MESSAGE.

GENERAL SAFETY PRECAUTIONS

WARNING!

READ MANUAL PRIOR TO INSTALLATION



Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).



READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.



KNOW YOUR EQUIPMENT

Know your equipment's capabilities, dimensions, and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to ensure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued, or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn or hard to read.

GENERAL SAFETY PRECAUTIONS

WARNING!

PROTECT AGAINST FLYING DEBRIS



Always wear proper safety glasses, goggles, or a face shield when driving pins in or out, or when any operation causes dust, flying debris, or any other hazardous material.

WARNING!

LOWER OR SUPPORT RAISED EQUIPMENT



Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels, or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms to ground level or on blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

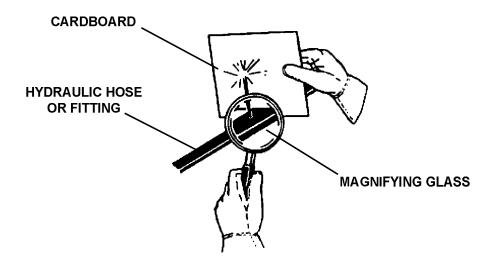
WARNING!

USE CARE WITH HYDRAULIC FLUID PRESSURE



Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime mover's operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as
 possible from a suspected leak. Flesh injected with hydraulic fluid may develop
 gangrene or other permanent disabilities.
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research it immediately to determine proper treatment.
- Wear safety glasses, protective clothing, and use a piece of cardboard or wood when searching for hydraulic leaks. DO NOT USE YOUR HANDS! SEE ILLUSTRATION.



GENERAL SAFETY PRECAUTIONS

WARNING!

DO NOT MODIFY MACHINE OR ATTACHMENTS



Modifications may weaken the integrity of the attachment and may impair the function, safety, life, and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

WARNING!

SAFELY MAINTAIN AND REPAIR EQUIPMENT



- Do not wear loose clothing or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tools for the job at hand. Make sure they are in good condition for the task required.
- Wear the protective equipment specified by the tool manufacturer.



SAFELY OPERATE EQUIPMENT

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your machine's manual for these instructions.

- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris, and oil.
- Never allow anyone to be around the equipment when it is operating.
- Do not allow riders on the attachment or the prime mover.
- Do not operate the equipment from anywhere other than the correct operator's position.
- Never leave equipment unattended with the engine running, or with this attachment in a raised position.
- Do not alter or remove any safety feature from the prime mover or this attachment.
- Know your work site safety rules as well as traffic rules and flow. When in doubt
 on any safety issue, contact your supervisor or safety coordinator for an explanation.

WARNING!

KNOW WHERE UTILITIES ARE



Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call your local utilities for location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter.

EQUIPMENT SAFETY PRECAUTIONS



TRANSPORTING ALL ATTACHMENTS

- Travel only with the attachment as close to the ground as possible. Drive slowly over rough ground and on slopes.
- When driving on public roads use safety lights, reflectors, Slow Moving Vehicle signs etc., to prevent accidents. Check local government regulations that may affect you.
- Do not drive close to ditches, excavations, etc., cave in could result.
- When on a slope, keep the load low and proceed with extreme caution. Do not drive ACROSS a steep slope drive straight up and down.

With a LOADED attachment - face the attachment and load uphill.

With an EMPTY attachment - face the attachment downhill.

• Do not smoke when refueling. Allow room in the gas tank for expansion. Wipe up any spilled fuel. Secure cap tightly when done.



MAINTAINING ALL ATTACHMENTS

- Before performing maintenance, lower the attachment to the ground, apply the brakes, turn off the engine, and remove the key.
- Worn, damaged, or illegible safety decals must be replaced. New safety decals can be ordered from your Frontier Dealer.
- Never work under a raised attachment.



OPERATING ALL ATTACHMENTS

- Operate only from the operator's station. Always use the seat belt if the prime mover has a ROPS. Do not use a seat belt if there is not ROPS. Check the seat belt daily and replace if frayed or damaged.
- Specified lift capacities must not be exceeded. See loader specifications.
- An operator must not use drugs or alcohol, which can change his or her alertness or coordination. An operator taking prescription or over-the-counter drugs should seek medical advice on whether or not he or she can safely operate equipment.
- Never use any of these attachments for a work platform or personnel carrier.
- Always check locking pins before tilting or operating any attachment.
- Do not handle round bales unless loader is equipped with approved bale handling attachments.
- Do not detach loader from tractor with any of these attachments installed. Equip loader with material bucket when detaching.
- Stop loader gradually when lowering or lifting loads
- Before exiting the prime mover, lower the attachment to the ground, apply the brakes, turn off the prime mover's engine, and remove the key.
- Add the required amount of ballast or tractor. (See Preparing the Tractor section of the Loader Operator's Manual to determine the type and amount of ballast required.)



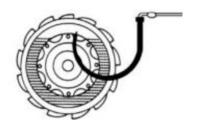


WARNING!

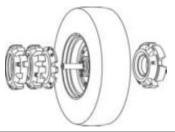
TRACTOR STABILITY OR LOSS OF STEERING CONTROL MAY RESULT IF BALLAST BOX IS INSTALLED WITHOUT LOADER. DO NOT OPERATE TRACTOR WITH BALLAST BOX UNLESS LOADER IS INSTALLED.

EQUIPMENT SAFETY PRECAUTIONS

REAR TIRE BALLAST 200/300/400/500 SERIES LOADERS



REAR TIRE BALLAST 600/700/800/GLOBAL CARRIER SERIES LOADERS





ADDITIONAL PRECAUTIONS FOR AY11 & AY12 SERIES 4-IN-1 BUCKETS

- Make sure all loads are secure before lifting. If lifting with the clam and load appears to be unstable, lower the load, open the clam and reposition the load to attain full stability.
- Do not handle round bales.
- Do not exceed the lift capacity of your loader. See loader specifications.



ADDITIONAL PRECAUTIONS FOR AD11 & AD12 SERIES DEBRIS BUCKETS

- Do not heap load heavy material where the combined weight of the bucket and the material could exceed the rated lifting capacity of the loader.
- Be sure the load does not stick out too far in front of the bucket. A light load sticking out too far can have the same tipping effect as a heavy load carried in close.
- Do not exceed the lift capacity of your loader. See loader specifications.
- Make sure all loads are secure before lifting. If lifting with the grapple and the load appears to be unstable, lower the load, open the grapple and reposition the load to attain full stability.
- Do not handle round bales.



ADDITIONAL PRECAUTIONS FOR AR10 & AR12 SERIES ROCK BUCKETS

- Be sure the load does not stick out too far in front of the bucket. A light load sticking out too far can have the same tipping effect as a heavy load carried in close.
- Do not exceed the lift capacity of your loader. See loader specifications.
- Make sure all loads are secure before lifting. If lifting with the optional grapple and the load appears to be unstable, lower the load, open the grapple and reposition the load to attain full stability.
- Do not handle round bales.



ADDITIONAL PRECAUTIONS FOR AM11 SERIES MANURE FORKS WITH GRAPPLE

- Do not exceed the lift capacity of your loader. See loader specifications.
- Make sure all loads are secure before lifting. If lifting with the grapple and the load appears to be unstable, lower the load, open the grapple and reposition the load to attain full stability.
- Do not handle round bales.



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