

NEW HOLLAND
Series 7312
Quick Attach
Farm Loader

OPERATOR'S
MANUAL



CONTENTS

	Page
INTRODUCTION	4
SAFETY PRECAUTIONS	5
OPERATION	6-16
Preparing Tractor	6
Operating Loader	6-10
Filling Bucket.....	6-7
Lifting Load.....	7
Carrying Load.....	7
Dumping Bucket.....	7
Lowering Bucket.....	8
Operating With Float Control.....	8
Loading From A Bank	8-9
Peeling And Scraping.....	9
Backgrading	9
Loading Low Trucks Or Spreaders From A Pile.....	9
Backfilling.....	10
Handling Large Heavy Objects	10
Operating Grapple Fork	11-13
Intended Use.....	11
Grasping Round Bales	11
Lifting And Carrying Load	11-12
Loading Into Tub Grinder	12
Stacking Bales	12-13
Loading From A Stack, Bunker Silo Or Pit Silo	13
Operating Bale Spear.....	14
Attaching Quick Attach Bucket or Optional Attachment	14
Detaching Quick Attach Bucket or Optional Attachment.....	14
Dismounting Loader	15
Preparing Stored Loader for Mounting	16
Mounting Loader	16
MAINTENANCE	17-19
Daily Maintenance	17
Troubleshooting.....	18
Air Cleaner Maintenance.....	19
SERVICE	20
Cylinder Service	20
Remote Control Valve Detent Conversion	21
Standard Remote Control Valve Detent Conversion.....	22
PARTS ILLUSTRATIONS	23-24
Loader Mainframe	23
Loader Hydraulics	24
SAFETY DECALS	25
SPECIFICATIONS	26

INTRODUCTION

This manual provides operation, maintenance, assembly and parts identification for your new backhoe.

Your New Holland 7312 Loader is designed for use on New Holland 8160, 8260, 8360 and 8560 2WD & FWA tractors, also TM115, TM125, TM135, TM150 and TM165 Standard 2WD, Standard 4WD, 4WD Terra-Glide front axle tractors..

Successful operation and long life of your loader depends, of course, on proper operation and the care given it. Please read this manual carefully and follow all instructions. Correct operation and maintenance will save much time and expense.




This SAFETY ALERT SYMBOL identifies IMPORTANT SAFETY MESSAGES in this manual. OBSERVE and FOLLOW all SAFETY MESSAGES to prevent personal INJURY.

Reference to left and right used in this manual refer to the position when standing at rear of unit facing forward, unless otherwise specified.

If at any time you have a service problem with your loader, or need parts, contact your local New Holland equipment dealer.

Your dealer will need your loader model, serial number and component number* to give you prompt efficient service. Record your serial and component numbers below. Also record date of purchase.

 NEW HOLLAND	
MODEL NO.	SERIAL NO.
7312	
COMPONENT	
NEW HOLLAND NORTH AMERICA, INC. MADE IN U.S.A.	

* Your loader serial and component numbers are stamped on this plate located on inside of left boom arm.

DATE PURCHASED _____

SAFETY PRECAUTIONS

Following are precautions suggested to help prevent accidents.

A careful operator operates best. Most accidents can be avoided by observing certain precautions. Read all precautions that follow before operating your tractor and loader to help prevent accidents. Equipment should be operated only by those who are responsible and instructed to do so.

GENERAL

1. Read your Operator's Manuals carefully before using tractor or loader. Lack of operating knowledge can lead to accidents.
2. Replace damaged or illegible safety decals. See page 25 for required decals.
3. Operate tractor and loader only from operator's seat.

TRACTOR

1. Use of seat belt is recommended. Overturning a tractor without use of a seat belt can result in death or injury.
2. Add recommended wheel ballast and/or rear weight as recommended in owner's manual to provide good stability.
3. Move rear wheels to widest settings recommended by New Holland to increase stability.
4. Move and turn tractor at low speeds.

LOADER

1. Improper use of a loader can cause serious injury or death.
2. Do not lift or carry anybody on loader, in bucket or on attachment.
3. Never allow anyone to get under loader bucket or reach through lift arms when bucket is raised.
4. Do not walk or work under a raised loader or bucket or attachment unless it is securely blocked or held in position.
5. Avoid overhead wires and obstacles when loader is raised. Contacting electric lines can cause electrocution.
6. Make sure all parked loaders are on a hard, level surface. Engage all safety devices.

OPERATING LOADER

1. As owner of this loader, it is your responsibility to be certain anyone operating this loader has read this manual first to be aware of safe operation of your tractor and loader.
2. Exercise caution when operating any loader with a raised loaded bucket or fork.
3. Avoid loose fill, rocks and holes. They can be dangerous for loader operation or movement.
4. Use care when operating on steep grades to maintain proper stability. Always carry bucket or attachment as low as possible.
5. Allow for loader length when making turns.
6. Stop loader arms gradually when lowering or lifting.
7. Use caution when handling loose or shiftable loads.

8. Carry bucket or attachment at a low position during transport for better visibility.
9. When parking or servicing, lower bucket to ground, stop engine and set park brakes before leaving tractor seat.
10. Operate loader controls only when properly seated at controls.
11. Using front end loaders without special attachments for handling large heavy objects such as large round or rectangular bales, logs and oil drums is **NOT RECOMMENDED**.
12. Handling large heavy objects can be extremely dangerous due to:
 - Danger of rolling tractor over.
 - Danger of upending tractor.
 - Danger of objects rolling or sliding down loader arms onto operator.
13. If you must perform this sort of work (see 12 above), protect yourself by:
 - Use proper attachments only.
 - Never lift load higher than necessary to clear ground when moving.
 - Ballast tractor rear to compensate for load.
 - Never lift large objects with equipment that does not have an anti-rollback device.
 - Move slowly and carefully, avoiding rough terrain.

MAINTENANCE

1. When servicing or replacing pins in cylinder ends, buckets, etc., always use a drift and hammer of non-sparking material. Failure to do so could result in injury from flying metal fragments.
2. Do not modify or alter or permit anyone else to modify or alter loader or any of its components or any loader function without first consulting a New Holland Dealer. If you have any questions regarding loader modifications contact New Holland Americas.
3. Always wear safety goggles when servicing or repairing tractor or loader.
4. Escaping hydraulic/diesel fluid under pressure can penetrate skin causing serious personal injury.
 - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop engine and relieve pressure before connecting or disconnecting hydraulic or diesel lines.
 - Tighten all connections before starting engine or pressurizing lines.
 - If any fluid is injected into skin, obtain medical attention immediately or gangrene may result.
5. Do not tamper with relief valve setting. Valve relief is factory-set. Changing relief setting can cause overloading of your tractor or loader and serious operator injury may result.

Whenever you see this symbol



it means: **ATTENTION!**

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

OPERATION

PREPARING TRACTOR PRIOR TO OPERATION



WARNING: Read all operator's manuals before inspecting, servicing or operating loader and tractor.

INSPECTION

Thoroughly inspect your fully assembled tractor and loader prior to operation.

1. Check all hardware to be sure that it has been properly installed and tightened. Retighten all hardware after 10 hours of initial operation.
2. Check tire pressure. Refer to tractor operator's manual for recommended pressures and permissible loads.
3. Review tractor lubrication schedule and consult MAINTENANCE section of this manual to be certain all pivot points have been properly lubricated.
4. Use instructions listed in MAINTENANCE section of this manual to check all hose and tubing connections to insure no leaks are present.

INSTALL COUNTERBALANCE



WARNING: Before operating tractor and loader, add sufficient counterweight so a minimum of 25% of total weight of tractor, loader and rated load is on rear wheels when bucket contains rated load and is in maximum forward position.

Sufficient weight can be added to tractor by filling rear wheels with liquid ballast, installing wheel weights or 3-point hitch counterweight. If 3-point hitch counterweights are used, they should be carried as low as possible at all times to maximize stability.

Effective counterbalance weight of mounted rear equipment is determined by multiplying actual weight of equipment by 1.50.

EXAMPLE: Equipment weighing 800 pounds, attached to rear of tractor, multiplied by 1.50, equals 1200 pounds of effective counterbalance weight.

After adding recommended counterweight, weigh tractor at rear axle to be sure counterbalance is adequate.

OPERATING LOADER

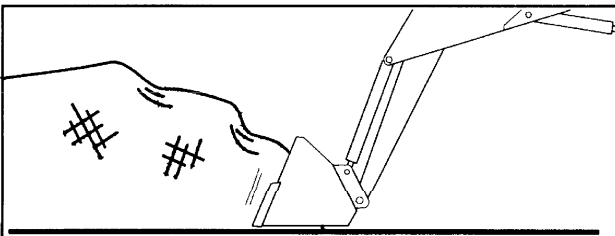
This loader should be operated with tractor engine running at 1700-2200 rpm. Excessive speeds are dangerous, and may cause bucket spillage and unnecessary strain on bucket and loader.

When operating in temperatures below 30°F., run tractor engine below 1200 rpm until oil temperature exceeds 30°F.

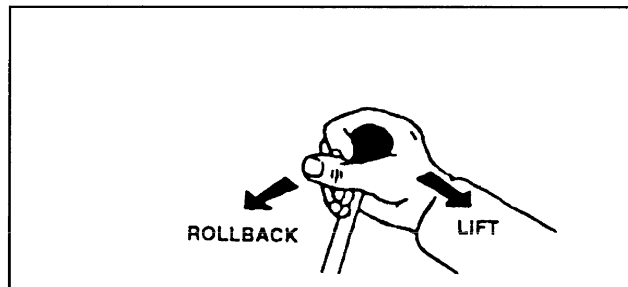
Text and illustrations which follow offer suggested loader and tractor operating techniques.

● FILLING BUCKET

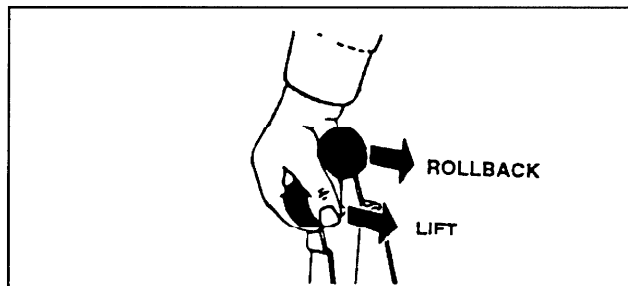
Approach and enter a pile with bucket level.



Loaders with 1-lever control, ease lever back and toward you to lift and curl bucket.



Loaders with 2-lever controls, ease both levers of tractor remote valve back to lift and curl bucket.



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