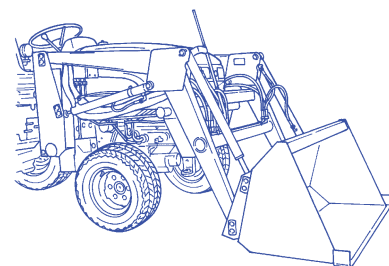


# NEW HOLLAND 7106

(Replaces All Previous Issues)

86597080 7/99

# OPERATOR'S MANUAL



**NEW HOLLAND**

## TO THE OWNER:

This manual contains information concerning the operation, adjustment, and maintenance of your loader. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this loader. Please have all operators read this manual carefully and keep it available for ready reference.

This loader was designed to mount on New Holland 1120, 1215, 1220, TC18, TC21, and TC21D tractors. It is intended to load and move materials with a variety of buckets and forks.

Your New Holland dealer will instruct you in the general operation of your loader. Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your loader.

Your New Holland dealer carries a complete line of genuine New Holland parts. These parts are manufactured and carefully inspected in the same factories that built the loader, to insure high quality and accurate fitting of any necessary replacement parts. Be prepared to give your dealer the model and serial number of the tractor and loader when ordering parts. Locate these numbers now and record them below.

Loader Model: \_\_\_\_\_ Tractor Model: \_\_\_\_\_

Loader Serial Number: \_\_\_\_\_ Tractor Serial Number: \_\_\_\_\_



**CAUTION: THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!**

**CAUTION: PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDING OPEN OR REMOVED TO BETTER ILLUSTRATE A PARTICULAR FEATURE OR ADJUSTMENT.**

**BE CERTAIN, HOWEVER, TO CLOSE OR REPLACE ALL SHIELDING BEFORE OPERATING THE MACHINE.**

## IMPROVEMENTS

New Holland North America, Inc. is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

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# PRECAUTIONARY STATEMENTS

## PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING”, and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



**CAUTION: THE WORD “CAUTION” IS USED WHERE A SAFE BEHAVIORAL PRACTICE ACCORDING TO OPERATING AND MAINTENANCE INSTRUCTIONS AND COMMON SAFETY PRACTICES WILL PROTECT THE OPERATOR AND OTHERS FROM ACCIDENT INVOLVEMENT.**



**WARNING: THE WORD “WARNING” DENOTES A POTENTIAL OR HIDDEN HAZARD WHICH HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.**



**DANGER: THE WORD “DANGER” DENOTES A FORBIDDEN PRACTICE IN CONNECTION WITH A SERIOUS HAZARD.**

**FAILURE TO FOLLOW THE “CAUTION”, “WARNING”, AND “DANGER” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.**

## MACHINE SAFETY

Additional precautionary statements (“ATTENTION” and “IMPORTANT”) are followed by specific instructions. These statements are intended for machine safety.

*ATTENTION: The word “ATTENTION” is used to warn the operator of potential machine damage if a certain procedure is not followed.*

*IMPORTANT: The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

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# SAFETY PRECAUTIONS

The following precautions are suggested to help prevent accidents.

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. Read and take the following precautions before operating the tractor and this loader to help prevent accidents. Equipment should be operated only by those who are responsible and instructed to do so.

## GENERAL

1. Read the Operator's Manual carefully before using the tractor or loader. Lack of operating knowledge can lead to accidents.
2. Replace damaged or illegible safety decals. See "Safety Decals" later in this manual.
3. Operate the tractor and loader only from the operator's seat.

## THE TRACTOR

1. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your tractor dealer.
2. Equip your tractor with FOPS (Falling Object Protective Structure) and seat belts before installing or operating the loader.
3. Always use the seat belt when the roll bar is installed. Do not use the seat belt if the roll bar is removed from the tractor.
4. Add the recommended wheel ballast and/or rear weight as recommended in the owner's manual to provide good stability.
5. Move the wheels to the tractor manufacturer's widest recommended settings to increase stability.
6. Move and turn the tractor at low speeds.

## THE LOADER

1. Improper use of a loader can cause serious injury or death.
2. Do not lift or carry anybody on the loader or in the bucket or attachment.
3. Never allow anyone to get under the loader bucket or reach through the lift arms when the 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 the loader is raised. Contacting electric lines can cause electrocution.
6. Make sure all dismounted loaders are on a hard, level surface.
7. Do not repair, remove, or replace any parts of the loader in the dismounted position.

## OPERATING THE LOADER

1. It is the loader owner's responsibility to be certain anyone operating the loader reads this manual first to be aware of the safe way of operating the loader.
2. Exercise caution when operating the 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 the bucket as low as possible.
5. Allow for the loader length when making turns.
6. Stop the loader arms gradually when lowering or lifting.
7. Use caution when handling loose or shiftable loads.

- 
8. Carry the bucket at a low position during transport for better visibility.
  9. When parking or servicing, lower the bucket to the ground, stop the engine, and set the park brakes before leaving the tractor seat.
  10. Operate the loader controls only when properly seated at the 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:
    - a. Danger of rolling the tractor over.
    - b. Danger of upending the tractor.
    - c. Danger of the object rolling or sliding down the loader arms onto the operator.
  13. If you must perform this sort of work (see 12 above), protect yourself by:
    - a. Using the proper attachment.
    - b. Never lifting the load higher than necessary to clear the ground when moving.
    - c. Ballasting the tractor rear to compensate for the load.
    - d. Never lifting large objects with equipment that does not have an anti-rollback device.
    - e. Moving slowly and carefully, avoiding rough terrain.

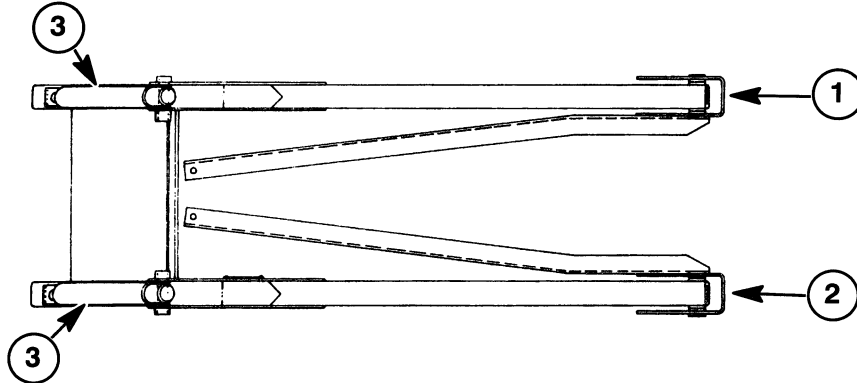
## **MAINTENANCE**

1. When servicing or replacing the pins in the cylinder ends, bucket, etc., always use a brass drift and hammer. 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 the 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.
3. Always wear safety goggles when servicing or repairing the machine.
4. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
  - **DO NOT** use your hand to check for leaks.
  - Use a piece of cardboard or paper to search for leaks.
  - Stop the engine and relieve the pressure before connecting or disconnecting the hydraulic or diesel lines.
  - Tighten all connections before starting the engine or pressuring the lines.
  - If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
5. Do not tamper with the relief valve setting. The relief valve is pre-set at the factory. Changing the setting can cause overloading the loader and tractor and serious operator injury may result.

# SAFETY DECALS

The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for those working with you. Please take this manual and walk around your machine to note the content and location of these warning signs. Review these warning signs and the operating instructions detailed in this manual with your machine operators.

Keep the decals legible. If they are not, obtain replacements from your New Holland dealer.



**WARNING**

**LOADER SAFETY**

Know all operation, warning and safety instructions in the operator's manual before operating the loader.

- Operate loader only from operator's seat.
- Carry bucket low during transport for better visibility and to avoid overturns.
- Use wheel ballast and / or rear weight for stability as recommended in the operator's manual.
- When parking or servicing unit, lower the bucket to the ground, stop engine, and set the parking brake to avoid tractor movement. Failure to follow any of the instructions above can cause serious injury to the operator or other persons in area. (Replacement manuals are available from your dealer.)

**1**

**LOADER SAFETY AND REMOVAL/INSTALLATION OF QUICKLATCH: Right Side of Loader Tower, Part #86589568**

**WARNING**

**TO AVOID INJURY DURING REMOVAL OR REINSTALLATION OF QUICKLATCH™ LOADER.**

Read and understand instructions in operator manual.

- Make sure detached loader is parked on hard level ground.
- Always have an attachment mounted to loader when it is removed from the tractor.
- Do not permit bystanders within 10 feet of loader.
- Do not repair loader if it is not mounted on tractor. Loss of oil or removal of parts could cause loader to collapse. Failure to follow any of the instructions above can cause serious injury.

**DANGER**

- Use ROPS and seat belt at all times.
- Add recommended rear ballast.
- Operate tractor at low speeds. Failure to comply may result in serious injury or death.

**DANGER**

- Keep bucket and boom away from overhead electric lines. Failure to comply may result in serious injury or death.

**2**

**WARNING AND DANGER: Left Side of Loader Tower, Part #86589568**

**WARNING**

- Do not handle round bales or large objects unless loader is equipped with proper attachments.
- Operate loader only with approved hydraulic valves.
- Handle raised loads with caution.
- Carry loads low. Failure to comply may result in serious injury and or death.

**WARNING**

- Do not lift or carry anybody in loader or work from bucket or any other attachment. Failure to comply may result in serious injury or death.

**3**

**DANGER: Left and Right Boom Arm, Part #86589567**

**DANGER**

- Do not walk or work under a raised loader.
- Lower loader to ground when parked.

Failure to comply may result in serious injury and or death.

CODE 86589567-8

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# GENERAL INFORMATION

The Model 7106 farm loader is designed to be compatible with the Models 1120, 1215, 1220, TC18, TC21, and TC21D tractors.

The loader has a quick-attach feature. The only tool needed to mount and dismount the loader from the tractor is a wrench to remove one 5/8" bolt from each rear loader mount. The side frame becomes the stand so there are no loose parts to become lost.

A complete line of heavy-duty and material buckets is available. The capacities of the buckets have been matched to the tractor size. The operator can choose the bucket best suited to the tractor and job. See "Specifications" for recommendations.

The new loader tower is angled at the front bottom corner to provide better wheel clearance.

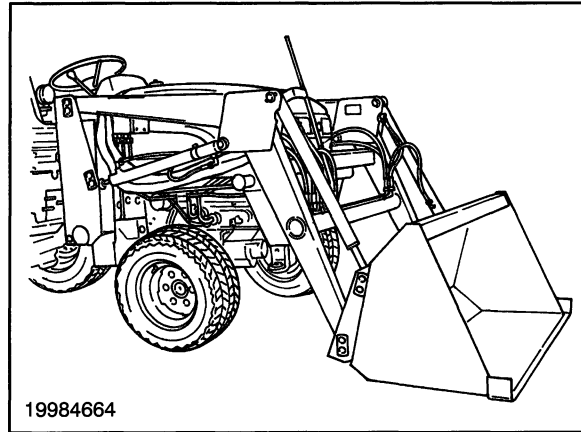


Figure 1

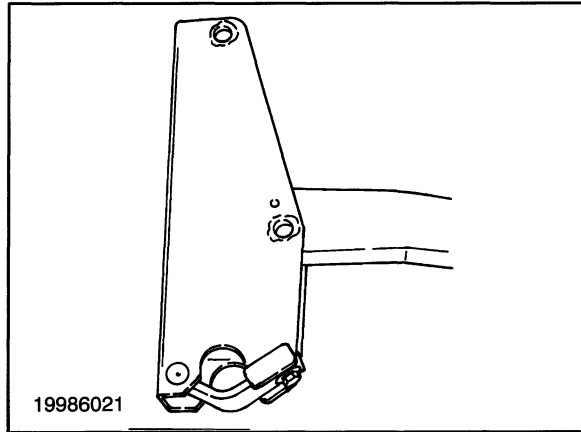


Figure 2



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# OPERATION

## MACHINE PREPARATION PRIOR TO OPERATION



**WARNING: READ THE OPERATOR'S MANUAL BEFORE INSPECTING, SERVICING, OR OPERATING THE UNIT.**

### Inspection

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

1. Check all the hardware to be sure that it has been properly installed and tightened. Retighten the hardware after the first 10 hours of operation.
2. Check the tire pressure. Refer to the "Specifications" section of this manual for recommended pressures.
3. Review the lubrication schedule to be certain that all pivot points have been properly lubricated.
4. Check all hose and tubing connections to insure that no leaks are present.

### Install Counterbalance



**WARNING: BEFORE OPERATING A TRACTOR WITH A LOADER, COUNTERWEIGHT THE TRACTOR SO THAT 30% OF THE TOTAL WEIGHT IS ON THE REAR WHEELS WITH THE RATED LOAD IN THE BUCKET IN MAXIMUM FORWARD POSITION.**

Sufficient weight can be added to the tractor by filling the rear tires 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.

The effective counterbalance weight of mounted rear equipment is determined by multiplying the actual weight of the equipment by 1.50.

**EXAMPLE:** Equipment weighing 180 kg (400 lbs.), attached to the rear of the tractor, multiplied by 1.50 equals 270 kg (600 lbs.) of effective counterbalance weight.

Be sure the FOPS (Falling Object Protective Structure) is installed.

### OPERATING THE LOADER

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

When operating in temperatures below -1.4° C (30° F), run the tractor engine below 1200 RPM until the oil temperature exceeds -1.4° C (30° F).

The following text and illustrations offer suggested loader and tractor operating techniques.

Thank you so much for reading.  
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