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New Holland 644 654 664 Baler

New Holland 644 654 664 Baler Operators Manual

Model: 644, 654, 664 Baler

Introduction

This manual provides essential information for the safe and efficient operation and maintenance of your New Holland 644, 654, and 664 Balers. It includes detailed instructions on controls, gauges, adjustments, operating procedures, routine maintenance, and troubleshooting tips. Adhering to the guidelines in this manual will help ensure the longevity and optimal performance of your equipment.

Safety Information

Always prioritize safety when operating or maintaining the baler. Read and understand all safety decals on the machine and in this manual. Wear appropriate personal protective equipment (PPE) such as safety glasses, gloves, and hearing protection. Ensure all guards and shields are in place before operation. Never allow unauthorized personnel to operate the baler.

- **Read the Manual:** Familiarize yourself with all operating procedures and safety warnings.
- **Machine Inspection:** Before each use, inspect the baler for any damaged or worn parts.
- **Power Take-Off (PTO):** Ensure the PTO shaft is properly connected and guarded.
- **Clear Area:** Keep bystanders, especially children, away from the operating area.
- **Emergency Shut-off:** Know the location and operation of all emergency shut-off controls.

Setup

Attaching the Baler to the Tractor

1. Position the tractor in front of the baler, aligning the drawbar.
2. Connect the baler drawbar to the tractor drawbar using the appropriate hitch pin and safety clip.
3. Attach the PTO shaft from the baler to the tractor's PTO output, ensuring it locks securely.
4. Connect all hydraulic hoses, ensuring they are correctly matched and free from leaks.
5. Connect electrical harnesses for lights and controls, if applicable.
6. Verify all connections are secure and free from obstructions.

Pre-Operation Checks

- Check tire pressure on both the tractor and baler.
- Inspect knotters for proper adjustment and twine supply.
- Ensure all lubrication points have been serviced according to the maintenance schedule.
- Verify all safety shields and guards are in place and secure.
- Check for any loose fasteners or damaged components.

Operating Instructions

Starting the Baler

1. Ensure the baler is on level ground and clear of obstructions.
2. Engage the tractor's PTO at a low RPM, gradually increasing to the recommended operating speed.
3. Monitor all gauges and indicators for normal operation.

Baling Process

- Drive the tractor at a consistent speed, ensuring the pickup head gathers material evenly.
- Adjust ground speed and PTO RPM to match crop conditions and desired bale density.
- Observe the bale chamber and knotter operation.
- When a bale is formed and tied, it will be ejected from the rear of the baler.

Stopping the Baler

1. Disengage the PTO.
2. Allow all moving parts to come to a complete stop before leaving the tractor seat.
3. Lower any raised components to the ground.
4. Turn off the tractor engine and remove the key.

Maintenance

Regular maintenance is crucial for the reliable operation and longevity of your New Holland baler. Refer to the detailed maintenance schedule provided in this manual for specific intervals.

Daily Checks

- Inspect twine boxes and knotters.
- Check for loose bolts and nuts.
- Lubricate all grease points as indicated in the lubrication chart.
- Clean debris from the baler, especially around moving parts and knotters.

Weekly / 50-Hour Maintenance

- Check and adjust chain tension.
- Inspect pickup teeth for wear or damage.
- Examine belts for tension and condition.
- Check hydraulic fluid levels.

Seasonal / Annual Maintenance

- Thoroughly clean and inspect the entire baler.

- Replace worn or damaged parts.
- Drain and replace gear oil as recommended.
- Store the baler in a dry, protected area.

Troubleshooting

This section provides solutions to common operational issues. For problems not listed here, consult a qualified service technician.

Problem	Possible Cause	Solution
Baler not tying bales	Twine broken or out; Knotter malfunction; Incorrect twine tension	Replace twine; Inspect and adjust knotters; Adjust twine tension
Uneven bale density	Uneven feeding; Incorrect bale tension adjustment	Adjust ground speed and pickup height; Adjust bale tension springs
Excessive vibration	Worn bearings; Unbalanced components; Loose fasteners	Inspect and replace bearings; Check for bent components; Tighten all fasteners

Specifications

- **Model:** New Holland 644, 654, 664 Baler
- **Publisher:** New Holland
- **Publication Date:** February 6, 1984
- **ASIN:** B007HO34NM
- *Note: Specific operational specifications (e.g., PTO RPM, bale size, weight) are detailed within the manual's internal sections.*

Warranty Information

This operator's manual is a reproduction of the original factory manual. For specific warranty information regarding your New Holland baler, please refer to the warranty documentation provided at the time of purchase of the equipment or contact an authorized New Holland dealer. This manual itself does not carry a product warranty.

Customer Support

For technical assistance, parts inquiries, or service, please contact your authorized New Holland dealer. When contacting support, please have your baler's model and serial number available for faster service. You can also visit the official New Holland website for additional resources and dealer locators.
Note: This manual is a guide for operation and maintenance. For complex repairs, professional service is recommended.

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