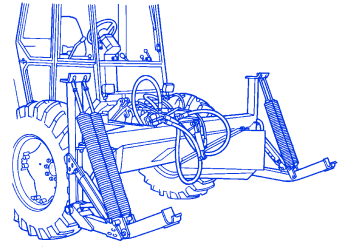


NEW HOLLAND 2330BF

87716208 11/07
Replaces 86635800

OPERATOR'S MANUAL



NEW HOLLAND

TO THE OWNER

This manual contains information concerning the adjustment and maintenance of your New Holland Model 2330BF adapter frame. 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 machine. Please have all operators read this manual carefully and keep it available for ready reference.



This machine was designed to be powered and propelled by a Bidirectional™ Tractor. When a header disc or sickle is attached it is intended to mow and windrow forage crops.

Your New Holland dealer will instruct you in the general operation of your adapter frame. (Refer to the “Delivery Report” at the back of this manual.) Your dealer’s staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your adapter frame.



Your New Holland dealer carries a complete line of genuine New Holland service parts. These parts are manufactured and carefully inspected 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 adapter frame, when ordering parts. Locate these numbers now and record them below. Refer to the “General Information” section of this manual for the location of the model and serial numbers of your adapter frame.

Model _____

Serial Number _____

 **WARNING** 

This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of death or serious injury.

 **WARNING** 

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.

Failure to comply could result in death or serious injury.

IMPROVEMENTS

CNH America LLC 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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CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“**DANGER**”, “**WARNING**”, and “**CAUTION**”) 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.



DANGER



This word “**DANGER**” indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.



WARNING



This word “**WARNING**” indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.



CAUTION



This word “**CAUTION**” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

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

MACHINE SAFETY

The precautionary statement (“**IMPORTANT**”) is followed by specific instructions. This statement is intended for machine safety.

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.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

SAFETY

PRECAUTIONARY STATEMENTS

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

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

1. **Do not work around the machine in loose clothing that might catch in any of the moving parts. Remove wristwatch and rings.**
2. **Wear a suitable hearing protective device, such as earmuffs or earplugs, if you are exposed to noise which you feel is uncomfortable.**
3. **Keep all shields in place.**
4. **Do not clean, lubricate, or make any adjustments on the machine while it is in motion or when the engine is running.**
5. **Practice operating the unit at slow speeds in uncrowded places until steering becomes natural.**
6. **Never suddenly reverse the wheels or stop or back up.**
7. **Do not make sharp turns at high speed.**
8. **Do not leave the cab while the engine is running. Be sure to place the FNR (forward, neutral, reverse) lever in park, engage the parking brake, and lower the header before leaving the cab.**
9. **Do not start the header until you are certain everyone is clear of the machine and have made sure no tools are lying on the machine.**
10. **Never stand directly behind the machine or near the header while it is operating.**
11. **Never attempt to pull material from the cutter bar, conditioner, or any other area of the header unless the engine is stopped, the forward-neutral-reverse lever is in neutral, and the parking brake is engaged.**
12. **Do not work under a raised header unless it is securely locked.**
13. **Use proper lights when traveling after dark on highways. Whenever traveling on a highway, turn on the flashing lights, except where prohibited by local regulations. Install an SMV emblem (slow-moving vehicle) on the engine end of the tractor when traveling on the highway.**
14. **Install a fire extinguisher in the cab. Keep the engine area clean. Remove dust, chaff, and hay to prevent the possibility of fires.**
15. **Do not fill the fuel tank while the engine is hot or running.**
16. **Do not smoke while filling the fuel tank or servicing the fuel system.**
17. **Always block the wheels when working on, under, or around the machine.**
18. **Always use the operator's seat belt while driving the machine.**

ECOLOGY AND THE ENVIRONMENT

Soil, air, and water are vital factors of agriculture and life in general. When legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, antifreeze, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose of these substances. Agricultural consultants will, in many cases, be able to help you as well.

HELPFUL HINTS

1. Avoid filling tanks using cans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which may be harmful to your health.
3. Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
4. Avoid spillage when draining off used engine coolant mixtures, engine, gearbox and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.
5. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.
6. Do not open the air-conditioning system yourself. It contains gases which should not be released into the atmosphere. Your dealer or air conditioning specialist has a special extractor for this purpose and will have to recharge the system properly.
7. Repair any leaks or defects in the engine cooling or hydraulic system immediately.
8. Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
9. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, allowing the loss of oils, coolant, etc.

INTERNATIONAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.

	Thermostart starting aid		Radio		P.T.O.		Position Control
	Alternator charge		Keep alive memory		Transmission in neutral		Draft Control
	Fuel level		Turn signals		Creeper gears		Accessory socket
	Automatic Fuel shut-off		Turn signals -one trailer		Slow or low setting		Implement socket
	Engine speed (rev/min x 100)		Turn signals -two trailers		Fast or high setting		%age slip
	Hours recorded		Front wind-screen wash/wipe		Ground speed		Hitch raise (rear)
	Engine oil pressure		Rear wind-screen wash/wipe		Differential lock		Hitch lower (rear)
	Engine coolant temperature		Heater temperature control		Rear axle oil temperature		Hitch height limit (rear)
	Coolant level		Heater fan		Transmission oil pressure		Hitch height limit (front)
	Tractor lights		Air conditioner		Hitch disabled		Hydraulic and transmission filters
	Headlamp main beam		Air filter blocked		FWD engaged		Remote valve extend
	Headlamp dipped beam		Parking brake		FWD disengaged		Remote valve retract
	Work lamps		Brake fluid level		Warning!		Remote valve float
	Stop lamps		Trailer brake		Hazard warning lights		Malfunction! See Operator's Manual
	Horn		Roof beacon		Variable control		Malfunction! (alternative symbol) See Operator's Manual
			Warning! Corrosive substance		Pressurized! Open carefully		

SECTION 1

GENERAL INFORMATION

The 2330BF adapter frame provides the mounting frame and hydraulics needed to use your Bidirectional tractor to cut hay. The Bidirectional tractor and 2330BF frame allow you to use an HS Series, 2300 Series, 2331/2332, or 720TD/820TD header on the cab end of your tractor.

NOTE: *This manual does not cover assembly or operation information for 2331/2332, 720TD/820TD disc headers on the 2330BF adapter. Refer to the 2331/2332, 720TD/820TD Assembly or Operator's Manual for disc header application.*

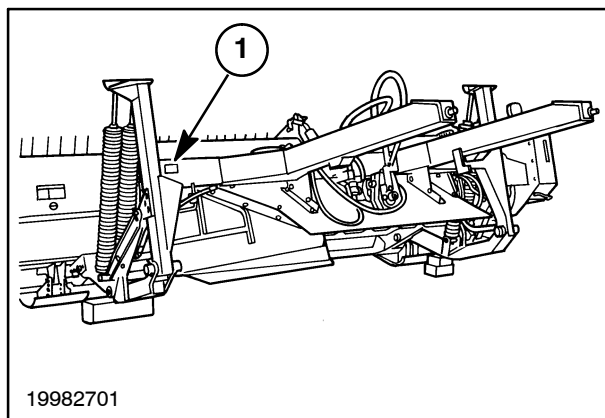
To use this frame and header on the Bidirectional tractor, your tractor must have the auxiliary hydraulic kit installed.

In this manual left, right, front, or rear are as seen from the cab end of the tractor sitting in the operator's seat, facing the header.

SERIAL NUMBER

When parts are needed, always order genuine New Holland parts from your New Holland dealer. Be prepared to give your dealer the model and serial number of your machine.

The adapter frame serial number plate, 1, is located on the left side of the frame.



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