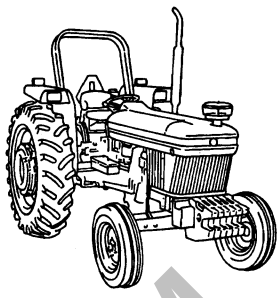
NEW HOLLAND

3010S
4010S
5010S

OPERATOR'S MANUAL



42301030 12/97

NEW HOLLAND

Reprint

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTENTS

OWNER ASSISTANCE 0-4

SAFETY 0-9

GENERAL INFORMATION 1-1

OPERATION 2-1

LUBRICATION AND MAINTENANCE 3-1

TROUBLESHOOTING 4-1

SPECIFICATIONS 5-1

INDEX 5-17

PRE-DELIVERY CHECKLIST 5-21

DELIVERY REPORT 5-25

FIRST 50-HOUR SERVICE CHECKLIST 5-29

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



Part No.: 82981721
<<Attention –– PTO Operation>>
Location: Right side mud guard, next to operator's seat.
PTO selection lever and clutch operation.



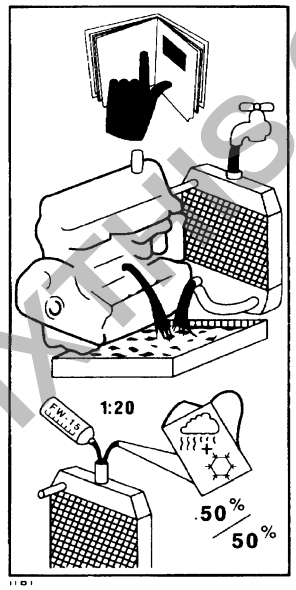
Part No.: 82981723
<<Warning –– Lift raises or drops...>>
Location: Touch command.
Warning –– Lift raises or drops completely when fast raise/lower lift control is operated.



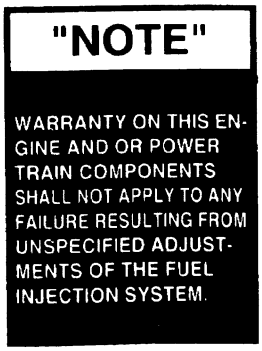
Part No.: 83946774
<<Exclamation Point in Triangle>>
Location: On both hydraulic lift rods.
To avoid serious injury, do not climb onto the equipment or between the equipment and the tractor when the external controls of the hydraulic lift are being used.



Part No.: 81866777
<<STOP>>
Location: Above key-start switch.
Stop position and fuel shutoff.



Part No.: 83976852
<<Radiator draining>>
Location: Underside of the right hood.
Consult the Operator's Manual for the proper draining and flushing procedures.



Part No.: 83902321
<<NOTE –– Warranty on this engine...>>
Location: Next to injection pump.
Fuel injection system and warranty note.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5. Do not attempt to service the air-conditioning system. It is possible to be severely frost bitten or injured by escaping refrigerant. Special equipment and instruments are required to service the air- conditioning system. See your authorized dealer for service.
6. Stop the engine before performing any service on the tractor.
7. Hydraulic fluid and diesel fuel in the injection system operate under high pressure. Escaping hydraulic fluid or fuel under pressure can penetrate the skin, causing serious injury. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection or hydraulic systems. Failure to follow these instructions can result in serious injury.



8. **Do not** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
9. Stop the engine and relieve pressure before connecting or disconnecting lines.
10. Tighten all connections before starting the engine or pressurizing lines.
11. If fluid is injected into the skin, obtain medical attention immediately.
12. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting an authorized dealer.
13. Continuous long term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.
14. Keep equipment clean and properly maintained.
15. Dispose of all drained fluids and removed filters properly.
16. Tractor wheels are very heavy. Handle with care and ensure, when stored, that they cannot topple and cause injury.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TRACTOR CAPACITIES	3010S	4010S	5010S
Fuel Tank	60 liters (15.8 US gallons)		
Sump Oil (filter included)	9.0 liters (9.5 US quarts)	10.0 liters (10.6 US quarts)	11.7 liters (12.3 US quarts)
Cooling System	11.0 liters (2.9 US gallons)	11.0 liters (2.9 US gallons)	11.6 liters (3.1 US gallons)
Hydrostatic Steering	2.0 liters (2.1 US quarts)		
Front Axle – 4WD	5.5 liters (5.8 US quarts)		
Front Hubs – 4WD	1.2 liters (1.3 US quarts)		
Transmission/Rear Axle – 2WD*	32 liters (33.8 US quarts)		
Transmission/Rear Axle – 4WD*	33 liters (34.9 US quarts)		
Final Drives – 2WD	1.7 liters (1.8 US quarts)	1.7 liters (1.8 US quarts)	3.5 liters (3.7 US quarts)
Final Drives – 4WD	3.5 liters (3.7 US quarts)	3.5 liters (3.7 US quarts)	3.5 liters (3.7 US quarts)

* Remote cylinders can displace up to 7.5 liters (2.0 U.S. gallons) of transmission oil without the tractor requiring more oil, provided it is operating on a level surface. However, it is always a good idea to keep the transmission oil up to the fill line. So when you attach remote devices, replenish the transmission oil with the same amount of oil displaced by the remote cylinder.

RECOMMENDED CONSUMABLES

CONSUMABLE	New Holland Recommended Product	New Holland Specification	International Specification
Fuel	Decanted and filtered diesel fuel		40 min. cetane rating (No.2)
Engine (Sump) Oil	Premium Multigrade Engine Oil	SH / CG–4 API (SAE 15W–40)	API CF–4/SG or CCMC D4 or MIL–L–2104E
Transmission/Hydraulics/ Rear Axle Oil	Multigrade Transmission, Rear Axle and Hydraulic Oil	134–D 85700812	API GL4 or ISO 32/46 or SAE 10W–30
Front Axle Case Oil, Front Wheel Hub Oil, Rear Final Drives	Multigrade Transmission, Rear Axle and Hydraulic Oil	134–D 85700812	API GL4 or ISO 32/46 or SAE 10W–30
Coolant	50% Antifreeze Plus 50% Clean, Soft Water	M97B18–D	WSN–M97B18–D
Grease (including front wheel hub)	Multipurpose Grease Extreme Pressure (EP)	865033661	NLGI 2 or ESE–M1C75–B or ESN–M1C137–B
Hydrostatic Steering Oil	Multigrade Transmission, Rear Axle and Hydraulic Oil	134–D 85700812	API GL4 or ISO 32/46 or SAE 10W–30

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

EVERY 800 HOURS (or 1 Year)

OPERATION 26 — CHANGE DRY AIR CLEANER INNER FILTER

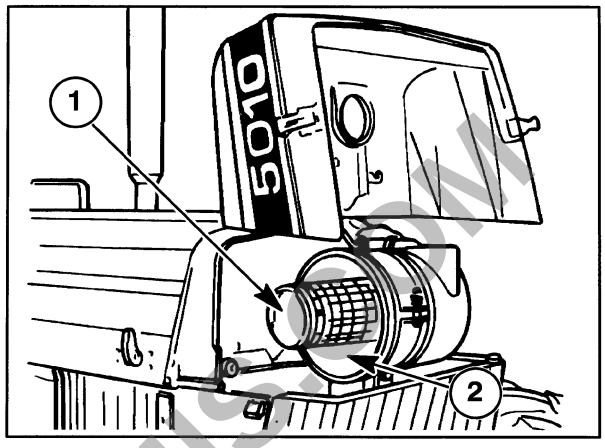


Figure 3-59

- Loosen the wing nut on the top of the pre-cleaner and remove the cover and glass bowl. Clean out the whole pre-cleaner assembly, dry it, and set it aside.
- Raise the front cowling.
- Open the split valve on the bottom of the casing to release any collected debris. You can also remove the valve completely to clean it.
- Hold the end of the casing with both hands, push in, turn the casing to remove it. (On models with a wing nut, unscrew the retaining wing nut from the end of the casing.)
- Remove the outer filter and discard it.
- Remove the inner filter, 1, and discard it.
- Clean the inside of the air cleaner casing, 2, with a damp, lint-free cloth on a probe.
- Install the new inner filter and the new outer filter, checking that the rubber seal ring at the end is secure and undamaged.

NOTE: It is normal for the dry air cleaner warning light to stay on for up to 10 seconds after starting a completely cold engine.

OPERATION 27 — CLEAN TRANSMISSION VENT PLUG

Remove the transmission vent plug, 1, by unscrewing it with a wrench. Clean the plug with a solvent or diesel fuel and allow to dry completely. Replace the vent plug and tighten.

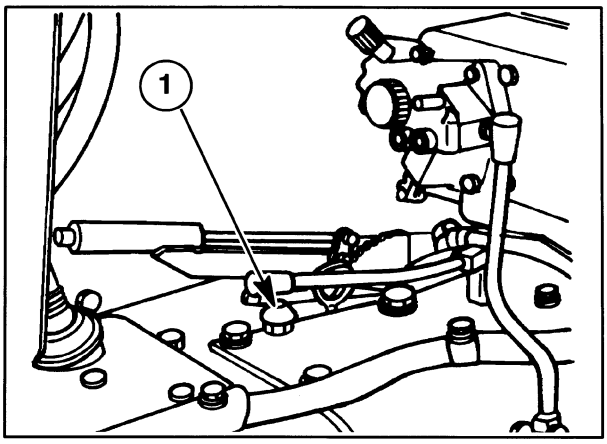


Figure 3-60

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

EVERY 400 HOURS (or 6 Months)



WARNING: DO NOT USE SOLVENTS IN A CONFINED SPACE. WORK IN A WELL-VENTILATED AREA.

Inspect the bearings and both bearing cups in the wheel hub for discoloration or wear. Repack the bearings and the space between the two bearing cups with grease and grease the wheel spindle with multipurpose grease extreme pressure, NH part no. 865033661, if possible. For international grease specifications, refer to Section 5.

Reassemble the bearing using a new grease retainer. Tighten the castellated nut to 34 N·m (25 ft. lbs.). Rotate the wheel hub three to six revolutions in a clockwise direction. Tighten the castellated nut further to 68 N·m (50 ft. lbs.).

Next, slacken the nut slots. If the hole in the axle shaft does not align with a slot in the nut, turn the nut in a clockwise direction just enough to align the hole with the nearest slot. Install a new split pin and screw in the hub cap.

Repeat this procedure with the other front wheel.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

New Holland Warranty Detail

The warranty period will begin on date of original retail sale or date of original use, whichever is earlier.

- The obligation of Company to the purchaser under this warranty is limited to the repair or replacement of defective parts by an authorized New Holland dealer and will be done free of charge for both parts and labor using genuine New Holland replacement parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of Company and the Selling Dealer in respect to such Products.
- Repairs or replacements will be performed by the Selling Dealer, following delivery of the Product by the purchaser to the Dealer's place of business. When the purchaser has moved a long distance from the Selling Dealer, or the Selling Dealer is no longer in business, any New Holland dealer authorized to sell and service the described Products may perform the repair at its dealership.
- The Selling Dealer shall review these warranty provisions with the purchaser prior to retail sale, secure his acknowledgement of delivery of this warranty and record the date of original retail sale or date of original use.
- To obtain warranty service, the purchaser must (1) report the product defect to an authorized New Holland dealer and request repair within the applicable warranty term and (2) present evidence of the warranty start date.

WHAT IS NOT COVERED BY THE WARRANTY?

This warranty shall NOT apply under the following conditions:

(i) With respect to vendor warranty items such as Allison transmissions and Deutz, Cummins and Caterpillar engines, or tires, tubes, and attachments which shall be warranted by their manufacturer, or local representative thereof.

(ii) If the unit has been subject to misapplication, abuse, misuse, negligence of proper maintenance or other negligence, fire or other accident.

(iii) If parts or attachments other than those made or marketed by New Holland North America, Inc. or New Holland Canada, Ltd., have been used in connection with the unit, and in the sole judgment of Company such use affects its performance, stability or reliability.

(iv) If the unit has been altered or repaired outside of a New Holland dealership in a manner which, in the sole judgment of Company, affects its performance, stability or reliability.

(v) Batteries are covered by a separate pro rata adjustment warranty. The pro-rata plan covers the battery fully for the basic product warranty period as indicated, with any remaining warranty pro-rated according to the months of service.

(vi) The purchaser shall be responsible for payment of dealer travel time to the machine or to deliver the machine to the dealer's service shop for repair. New Holland warranty does not cover delivery charges or travel time.

(vii) The Company shall have no liability for used equipment sold beyond the specified coverage period.

(viii) No warranty shall apply to damage resulting from accident or damage caused by environment (such as exposure to corrosive material). The Company shall not be responsible for rental equipment used to replace the equipment being repaired.

(ix) This warranty shall NOT apply to normal maintenance services (such as tune-ups, fuel injection system cleaning or wheel, brake and clutch adjustments), to normal replacement of service items (such as filters and brake or clutch linings), or to normal deterioration due to use or exposure (such as belts and exterior finish). New Holland shall not be responsible for normal replacement parts such as cutting knives, chains, belts, clutches, filters, oil, or other parts which are worn out, unless they are determined to be defective in material or workmanship.

(x) This warranty shall NOT apply to any New Holland Product which is retailed or distributed by anyone other than New Holland North America, Inc. or New Holland Canada, Ltd., through its authorized dealers. This warranty shall NOT apply to any Product which is normally operated outside of the United States, and/or Canada.

(xi) This warranty shall NOT apply if the purchaser, insurance company, or any other entity or individual acting on behalf of the purchaser seeks reimbursement for the dollar value of the repair(s) or replacement(s) covered under this warranty.

(xii) If the injection pump has been set for fuel delivery above New Holland specifications.

RIGHT TO MAKE DESIGN CHANGES

Company reserves the right to make changes in the design and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

THREE-POINT LINKAGE

1 Top Link Draft Sensing Spring

2 Right Side Lift Rod

3 Left Side Lift Rod

4 Lower Links

5 Check Chains

6 Check Spring (for transport)

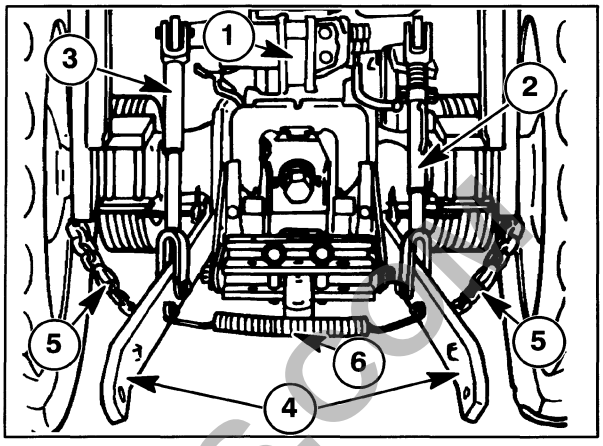


Figure 2-23

Before attaching equipment to this tractor, check the following points:

- Make sure the check chains are adjusted correctly for the equipment you are attaching.
- Make sure the lift rods are in the appropriate hole in the lower links.
- If you are attaching close-mounted equipment, remove the swinging drawbar.

WARNING: ALWAYS OPERATE IN POSITION CONTROL WHEN YOU ARE ATTACHING, DETACHING, OR TRANSPORTING EQUIPMENT. POSITION CONTROL IS ALSO RECOMMENDED AT ANY TIME WHEN YOU'RE NOT ACTUALLY USING DRAFT CONTROL.

You can attach most extra equipment to this tractor by following these steps:

- Find a level, firm surface to park the equipment and tractor.
- Position the tractor so the lower link hitch points are level with and slightly ahead of the implement hitch pins.
- Carefully inch the tractor back to align the tractor and implement hitch pins.
- Stop the engine, insert the hitch pins, and secure with linchpins.
- Lengthen or shorten the top link until the implement mast pin inserts through the mast and top link.
- Adjust the top link to an initial setting of 685 mm (27.0 in.) between the hole centers.
- Connect the remote cylinders.

When detaching equipment, these tips will help you work efficiently and safely:

- Park the tractor and equipment on a level, firm surface.
- Support the equipment in some way so it can not tip or fall when detached from the tractor.
- Remember to relieve all hydraulic pressure in the remote cylinders before unhitching.

After you mount the equipment, you might have to make some minor adjustments. To make sure the equipment operates properly, check and adjust the top link, the lift rods and lower links, the hydraulic lift draft sensing spring, and the check chains.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

EVERY 400 HOURS (or 6 Months)

OPERATION 21 — CHECK FRONT AXLE / DIFFERENTIAL OIL LEVEL (4WD)

On four-wheel drive tractors, check for oil at the bottom of the front axle/differential oil fill plug, 1. Top up, if necessary.

Use multigrade transmission oil that meets specification 134-D (NH Part No. 85700812), if possible. For international oil specifications, refer to Section 5.

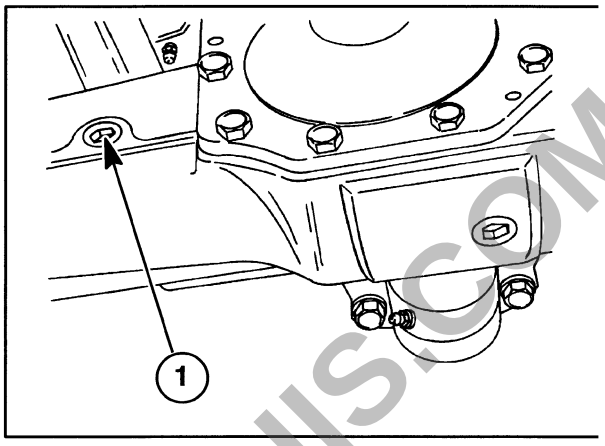


Figure 3-54

OPERATION 22 — CHECK FRONT WHEEL HUB OIL LEVELS (4WD)

On four-wheel drive tractors, check each front axle hub oil level with the wheel positioned so the oil filler plug is level with the center of the hub, 1, midway from the top to the bottom. Check for oil at the bottom of the filler plug. Top up, if necessary.

Use multigrade transmission oil that meets specification 134-D (NH Part No. 85700812), if possible. For international oil specifications, refer to Section 5.

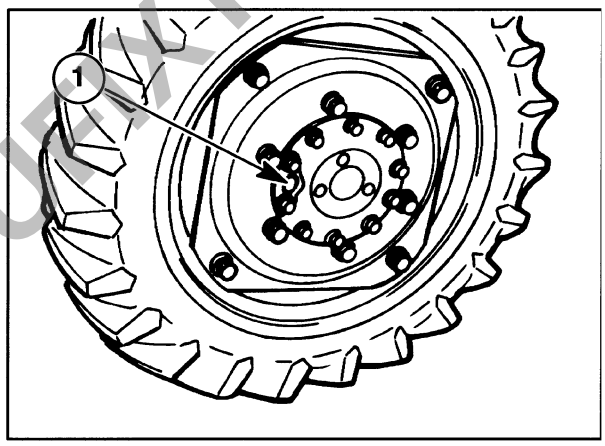


Figure 3-55

OPERATION 23 — REPLACE HYDRAULIC OIL FILTER

The hydraulic oil filter is on the right side of the engine. Clean the area around the filter, unscrew the filter casing, 1, and discard it the old filter.

Clean the inlet channel and the face of the filter mounting. Smear clean oil around the rubber seal of the new filter and screw the filter onto the engine. Screw the filter up until the faces meet, then tighten another three-quarter turn. Do not overtighten.

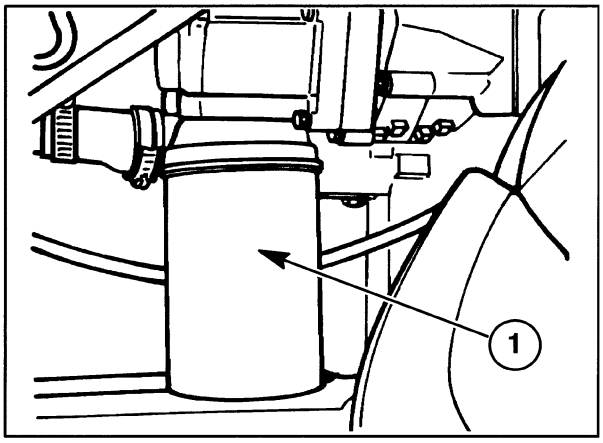


Figure 3-56

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 178 pages

The full manual includes:

- All 178 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland 3010S, 4010S, 5010S Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual