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1 - GENERAL INFORMATION

Note to the Owner

General Information

This manual has been prepared to assist you in the correct procedure for running in, driving and operating your new machine, and for its maintenance. Read this Manual carefully. Your machine is designed to be used in normal and customary agricultural applications.

If you require advice concerning your machine at any time, do not hesitate to contact your NEW HOLLAND dealer. He has factory trained personnel, genuine manufacturers' parts and the necessary equipment to carry out all your service requirements.

The specification are provided for your information and guidance. For further information concerning your machine and equipment, consult your NEW HOLLAND dealer.

All data given in this book is subject to production variations. Dimensions and weight are approximate only. The illustrations do not necessarily show machines in standard condition or imply that these features are available in all countries. For exact information about a particular machine, see your NEW HOLLAND dealer.

Your machine has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. Prior to delivery, the machine was carefully inspected, both at the factory and by your dealer, to ensure that it reaches you in optimum condition. To keep it in this condition and guarantee that its operation is problem-free, it is important that routine service procedures, as specified in the maintenance table on page 7-8, are carried out at the recommended intervals.

Operator's manual storage

The operator's manual supplied with your machine is an important source of information and should be stored safely.

The manual has been written specifically for your tractor so it is important that you make a note of the print number and issue date, which can be found on the cover. In the event the manual is lost or damaged it can be replaced with the correct version.

About this manual

This manual gives information for use of your machine, as intended and under the conditions foreseen by the manufacturer during normal operation and routine service and maintenance.

Read and understand it; keep it in good condition and always keep it in a safe place.

This manual does not contain all the information related to periodical service, converting and repairs to be carried out by NEW HOLLAND professional service personnel.

The Table of Contents page(s) are provided to have an overview of main manual's topics. A detailed alphabetic index is available at the end of this manual for locating specific items.

Normal operation

- Normal operation means the use of the machine for the purpose intended by the manufacturer by an operator familiar with the machine and the mounted or towed equipment and complying with the information for operation and safe practices, as specified by the manufacturer in this manual and by the decals on the machine and the equipment.
- Normal operation includes preparing and storing the machine, swinging components into and out of work position, adding and removing ballast, and connecting and removing accessories.
- Normal operation includes adjusting and setting up the machine and equipment, for the specific condition of the field and/or the crop.

Routine service

- Routine servicing and maintenance means activities that must be performed daily by an operator familiar with the machine's characteristics and in compliance with the routine servicing information and with safe practice, as specified by the manufacturer in this manual and by decals on the machine, in order to keep it working properly. The routine service includes activities such as filling up, cleaning, washing, topping up fluid, applying grease, and replacing consumable items such as bulbs.

Converting, periodical service and repair

- Periodic servicing means activities that must be performed at given intervals by trained personnel familiar with the machine's characteristics and in compliance with the periodic servicing information and with safe practice, as specified by the manufacturer in this manual and in other company literature, in order for the machine to keep to its expected working lifespan.
- Conversion means activities that must be performed by professional service personnel familiar with the machine's characteristics and in compliance with the conversion information, as specified by the manufacturer

in this manual, as well as with other company instructions or literature, in order to prepare the machine for a specific configuration.

- Repair means activities that must be performed by professional service personnel familiar with the machine's characteristics and in compliance with the repair information, as specified by the manufacturer in the dealer's manual, in order to restore the machine to correct working order following a fault or reduced performance.

Cleaning the machine

When using a high pressure washer, do not stand too close to the machine and avoid directing the jet at electronic components, electrical connections, breathers, seals, filler necks, etc. Never direct a cold water jet at a hot engine or exhaust.

Failure to comply with these rules will render the warranty null and void.

Safety

The pages in Section 2 list the precautions to be observed to ensure your safety and the safety of others. Read the safety precautions and follow the advice offered before operating the machine.

Spare parts

It should be pointed out that genuine parts have been examined and approved by the Company. Fitting and/or using non-genuine products could have negative effects on the design characteristics of your machine, thereby affecting its safety. The Company is not liable for any damage caused by the use of 'non-genuine' parts and accessories. Only genuine replacement parts should be used. The use of non-genuine parts may invalidate legal approvals associated with this product.

Making any modifications to the machine is prohibited, without specific written authorization from the manufacturer's After Sales Service department.

Warranty coverage

Your machine is warranted according to legal rights in your country and the contractual agreement with the selling dealer. No warranty shall, however, apply if the machine has not been used, adjusted and maintained as per the instructions given in this operator's manual.

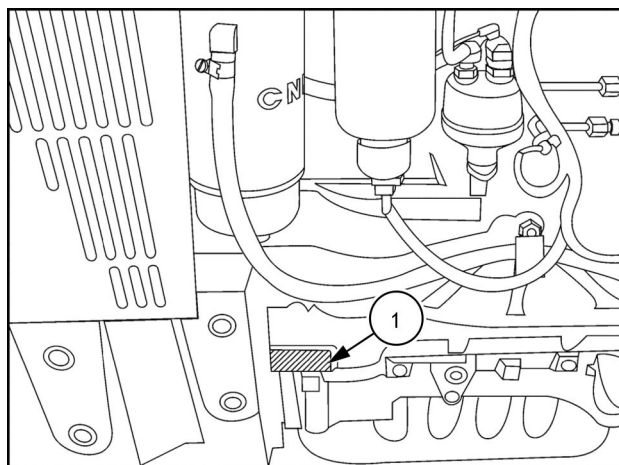
Using Biodiesel

Before using biodiesel in your machine, refer to the information on page **7-3** as regards storing and using biodiesel.

Engine identification

The engine identification code is stamped on the left-hand side of the engine. Make a note of the code in the space below.

Engine identification code: _____



CUIL13TRO0094AA 1

Nameplate

Your machine and its main components are identified by codes. These codes facilitate identification of your machine. You must give them to your NEW HOLLAND dealer when requesting replacement parts or servicing. The following information indicates where the identification codes are stamped.

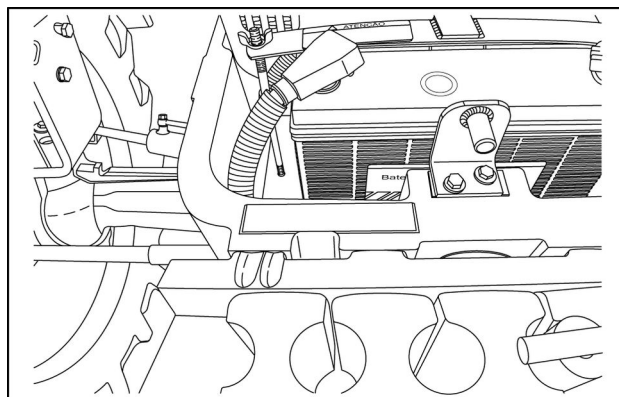
Machine identification plate

The plaque with the product identification number (PIN) is located on the inside of the right-hand side of the hood.



BRAG12TRLUE0350 1

The PIN is also stamped on the machine's front axle support bracket.



CUIL13TRO0181AA 2

Ecology and the environment

Soil, air, and water are vital factors of agriculture and life in general. Where 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

- Avoid filling tanks using unsuitable containers or inappropriate pressurized fuel delivery systems that may cause spillages.
- If you are exposed to or come in contact with hazardous chemicals you can be seriously injured. The fluids, lubricants, paints, adhesives, coolant, etc. required for the function of your machine can be hazardous. They may be attractive and harmful to domestic animals, as well as humans.
- Dispose of all fluids, filters, and containers in an environmentally-safe manner and according to local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information. Store fluids and filter in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.
- Modern oils contain additives. Do not burn contaminated fuels and/ or waste oils in ordinary heating systems.
- Avoid spillage when draining off used engine coolant mixtures, engine, gear box 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.
- 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.
- The air-conditioning system contains gases that are harmful to the environment when released into the atmosphere. Do not attempt to service or repair the system. Your dealer or air conditioning specialist has a special extractor for this purpose and will be able to recharge the system in any case.
- Repair any leaks or defects in the engine cooling or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this could cause the components to explode.
- Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, causing the loss of oils, coolant, etc.
- Keep out of reach of children or other unauthorized persons. Additional precautions are required for applied chemicals. Obtain complete information from the manufacturer or distributor of the chemicals before you use them.

Battery

Mandatory recycling

The battery is essentially composed of lead plates and sulfuric acid solution. Since the battery contains heavy metals such as lead, **CONAMA** Resolution 401/2008 orders that all used batteries must be returned to the battery dealer at the time of replacement. Do not dispose of the battery in the garbage. Points of sale are obliged to accept the return of your used battery, and to store it in a suitable place and return it to the manufacturer for recycling.

Improper disposal of batteries can contaminate the soil, groundwater and waterways. The consumption of contaminated water can cause high blood pressure, anemia, depression, weakness, leg pain, and drowsiness. Contact of the acid solution with eyes causes chemical conjunctivitis. Contact of the acid solution with skin causes contact dermatitis. In the case of accidental contact with the eyes or skin, immediately wash with running water and seek medical treatment.



CUIL13TRO0091AA 1

Procedure for running-in and pre-operation checks

Running-in Procedure

NOTICE: *Your new machine will have a long and reliable working life if cared for properly during the first 50-hour running-in period and if serviced at the recommended intervals.*

Avoid overloading the engine. Operating in a high gear under heavy load may cause engine overloading. Overloading occurs when the engine will not respond to a throttle increase.

Do not operate without a load on the engine. This can be as harmful to the engine as overloading. Vary the type of operation carried out so the engine is submitted to a mix of heavy and light loads during the running-in period.

Use the lower gear ratios when towing heavy loads and avoid continuous operation at constant engine speeds. Running the machine in a very low gear with a light load and high engine speed wastes fuel. You will save fuel and minimize engine wear by selecting the correct gear ratios for a particular operation.

Check the instruments and warning lights frequently and keep the radiator and oil reservoirs topped up to the recommended levels.

Pre-operation checks

Before operating the machine, ensure that you are thoroughly familiar with the location and workings of the controls.

Perform daily lubrication and maintenance operations in accordance with Section 7.

After completing daily maintenance operations, walk around the machine and visually inspect it. Special attention must be given to the following items:

- Poly 'V' belt for cracks or damage.
- Areas of the engine and exhaust where debris builds up
- Hoses, lines and fittings for leaks or damage
- Tires for damage.
- Hardware for looseness.
- Transmission and hydraulic pump assembly/filter area for leaks or debris build-up.

Make any necessary repairs before using the machine. When using the machine, pay attention to the following points:

- When driving on public roads, always remember other road users. Keep to the right to allow faster traffic to get past.
- Use low beam when you meet any other vehicle at night. Keep the headlights adjusted so as not to blind the drivers of oncoming vehicles.
- When getting the unit out of a ditch, slowly apply the clutch; likewise when climbing a steep hill or overcoming any other obstacle. De-clutch quickly if the front wheels leave the ground.
- Never apply the differential lock when maneuvering.

International symbols

As a guide to the operation of the machine, 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.

 Heater plug for cold start	 Turning signal	 Power Take-Off (PTO)	 Reaction control
 Alternator charging	KAM Activated memory	N Transmission in neutral	 Accessories socket
 Fuel level	 Turn signals	 Creeper selection	 Implement socket
 Automatic fuel shut-off	 Turn signals - one trailer	 Low speed selection	 Percentage slip
 Engine speed (rpm x 100)	 Turn signals - two trailers	 High speed selection	 Raising of the hydraulic lift
 Hour meter	 Windscreen washer	 Road speed	 Rear hitch lower
 Engine oil pressure	 Windscreen wash wipe	 Differential lock	 Hydraulic lift height threshold
 Engine coolant temperature	 Heating temperature control	 Rear axle oil temperature	 Hydraulic lift disabled
 Coolant level	 Cab recirculation fan	 Transmission oil pressure	 Transmission filters and hydraulic filters
 Machine lights	 Air conditioner	 Auxiliary Front Wheel Drive (AFWD) operated	 Remote control valve extension
 Main beam head	 Air Filter Restriction	 Warning!	 Remote control valve command retraction
 Low beam	 Parking brake	 Danger warning lights	 Remote control valve flotation
 Work lamps	 Brake fluid level	 Variable control	 Malfunction! See Manual
 Stop lamp	 Trailer brake	 Pressurized! Open carefully	 Malfunction! (alternative symbol)
 Horn	 Warning! Corrosive substance	 Position control	 Brake fluid level

2 - SAFETY INFORMATION

Safety rules


Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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