3 - CONTROLS AND INSTRUMENTS

Access to operator's platform

Access to operator’s platform

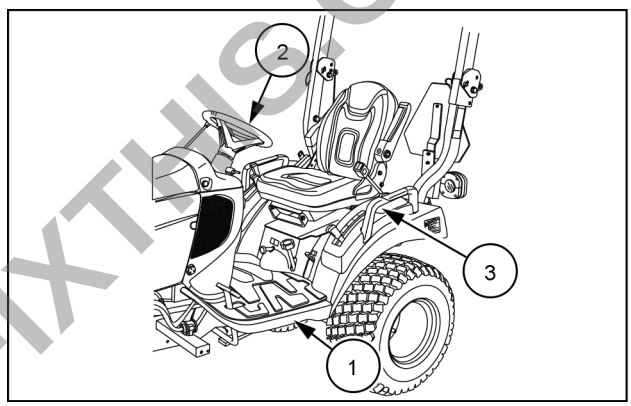
⚠ WARNING

Fall hazard!
Jumping on or off the machine could cause an injury. Always face the machine, use the handrails and steps, and get on or off slowly. Maintain a three-point contact to avoid falling: both hands on the handrails and one foot on the step, or one hand on the handrail and both feet on the steps. Failure to comply could result in death or serious injury.

W0141A

Entering and exiting the tractor:

- Whenever possible, use the left-hand side step **(1)** for entering and exiting the tractor operator’s platform.
- When boarding the tractor, use the step **(1)**, steering wheel **(2)** and grab handle **(3)** on the left-hand fender.



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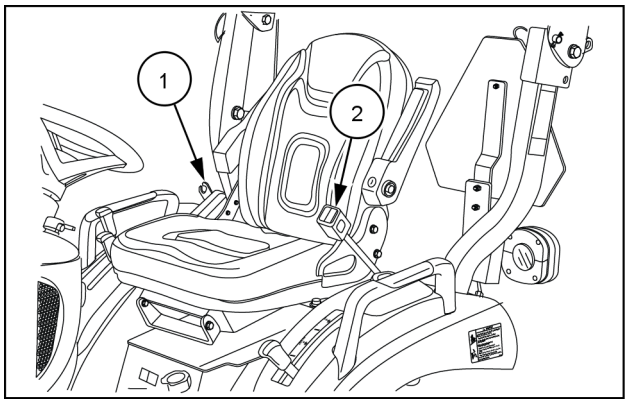
Operator's seat

Seat belt

The male end of the seat belt **(1)** is located on right -hand side of the seat. To extend length of seat belt, pull out on male end until correct length is obtained. To latch seat belt, insert male end into the buckle **(2)** located on left-hand side of the seat. Make sure belt is securely buckled and belt length is adjusted correctly for size of operator.

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or dye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.



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4 - OPERATING INSTRUCTIONS

Commissioning the unit

Engine - Running-in Procedure

Your tractor will provide long and dependable service if given proper care during the first 50-hour break-in period. During the first 50 hours of operation:

1. Avoid "lugging" the engine. Operating in high range at under heavy load may cause engine lugging, which is indicated when the engine will not respond to a throttle increase.
2. Use low range when pulling heavy loads and avoid continuous operation at high engine speeds with no load. Reduce engine speed when maximum power is not required, such as transport operations.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to recommended levels. Daily checks include the engine oil level, radiator coolant level, and air cleaner.
5. After the first 50 hours of use, be sure to perform the maintenance items listed in the maintenance planning chapter. See page **7-8** for more information about maintenance planning.

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7 - MAINTENANCE

General information

Safety rules

⚠ WARNING

Entanglement hazard!
Disengage the Power Take-Off (PTO), turn off the engine, and remove the key. Wait for all movement to stop before leaving the operator's position. Never adjust, lubricate, clean, or unplug machine with the engine running.
Failure to comply could result in death or serious injury.

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⚠ WARNING

Illustrations in this manual may show protective shielding open or removed to better illustrate a particular feature or adjustment.
Replace all shields before operating the machine.
Failure to comply could result in death or serious injury.

W0012A

Adequate lubrication and maintenance on a regular schedule is vital to maintaining your equipment. To ensure long service and efficient operation, follow the lubrication and maintenance schedules outlined in this manual. The use of proper fuels, oils, grease and filters, as well as keeping the systems clean, will also extend machine and component life.

NOTICE: *NOTICE: While any company can perform the necessary maintenance or repairs on your equipment, NEW HOLLAND strongly recommends that you use only NEW HOLLAND dealers and products that meet given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.*

NOTICE: *Always use genuine NEW HOLLAND replacement parts, oils and filters to ensure proper operation, filtration of engine and hydraulic systems. See your NEW HOLLAND dealer for additional oil quantities.*

Regular lubrication is the best insurance against delays and repairs. Proper lubrication will extend machine life. Refer to the following charts for lubricants and service intervals see **7-8**.

NOTICE: *Failure to complete the required maintenance at the recommended intervals can cause unnecessary downtime.*

The intervals listed in the maintenance chart are guidelines to be used when operating in normal conditions. Adjust the intervals for operating in adverse environmental and working conditions. The intervals should be shortened for sandy, dusty and extremely hot operating conditions.

Always clean the area around dipsticks, fill caps, and check plugs when checking fluid levels. Failure to clean these areas may allow contamination to enter the system. Drain, flush and refill the system any time you suspect it is contaminated.

Grease fittings

NOTE: *There are not any grease zerk locations on the tractor.*

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2 - SAFETY INFORMATION

Safety rules and signal word definitions

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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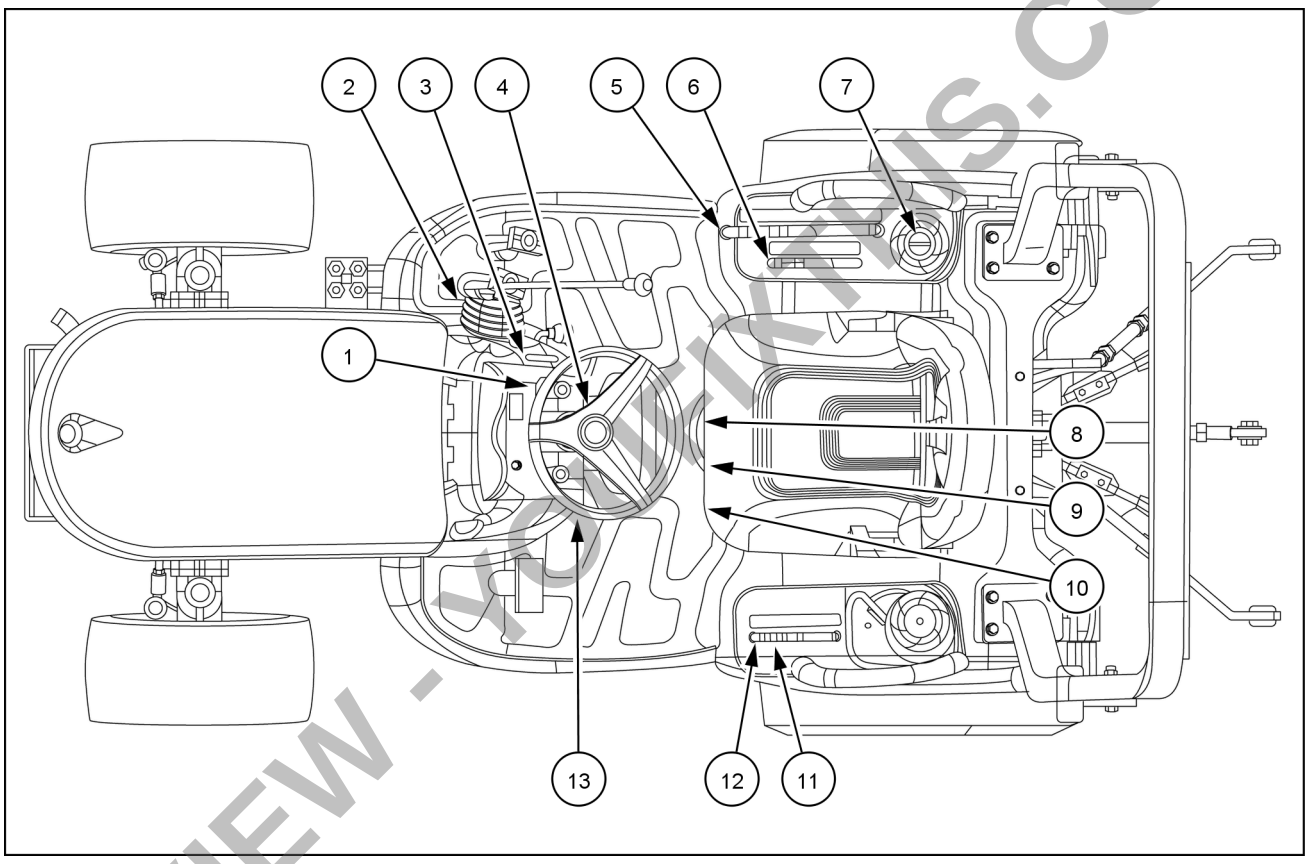
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Instructional signs

The following instructional signs are placed on your machine as a guide for your safety and for those working with you. Walk around the machine and note the content and location of these instructional signs before operating your machine.

Keep instructional signs clean and legible. Clean instructional signs with a soft cloth, water, and a gentle detergent. Do not use solvent, gasoline, or other harsh chemicals. Solvents, gasoline, and other harsh chemicals may damage or remove instructional signs.

Replace all instructional signs that are damaged, missing, painted over, or illegible. If an instructional sign is on a part that is replaced, make sure the instructional sign is installed on the new part. See your NEW HOLLAND dealer for replacement instructional signs.



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Seat belts are part of your protective system and must be worn at all times. The operator must be held to the seat inside the frame in order for the protective system to work.

⚠ Personal Protective Equipment (PPE) ⚠

Wear Personal Protective Equipment (PPE) such as hard hat, eye protection, heavy gloves, hearing protection, protective clothing, etc.

⚠ Do Not Operate tag ⚠

Before you start servicing the machine, attach a 'Do Not Operate' warning tag to the machine in an area that will be visible.

⚠ Hazardous chemicals ⚠

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.

Material Safety Data Sheets (MSDS) provide information about the chemical substances within a product, safe handling and storage procedures, first aid measures, and procedures to take in the event of a spill or accidental release. MSDS are available from your dealer.

Before you service your machine check the MSDS for each lubricant, fluid, etc. used in this machine. This information indicates the associated risks and will help you service the machine safely. Follow the information in the MSDS, and on manufacturer containers, as well as the information in this manual, when you service the machine.

Dispose of all fluids, filters, and containers in an environmentally safe manner according to local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information.

Store fluids and filters in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.

Keep out of reach or children or other unauthorized persons.

Applied chemicals require additional precautions. Obtain complete information from the manufacturer or distributor of the chemicals before you use them.

⚠ Utility safety ⚠

When digging or using ground-engaging equipment, be aware of buried cables and other services. Contact your local utilities or authorities, as appropriate, to determine the locations of services.

Make sure that the machine has sufficient clearance to pass in all directions. Pay special attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety. Contact local authorities or utilities to obtain safe clearance distances from high voltage power lines.

Retract raised or extended components, if necessary. Remove or lower radio antennas or other accessories. Should a contact between the machine and an electric power source occur, the following precautions must be taken:

- Stop the machine movement immediately.
- Apply the parking brake, stop the engine, and remove the key.
- Check if you can safely leave the cab or your actual position without contact with electrical wires. If not, stay in your position and call for help. If you can leave your position without touching lines, jump clear of the machine to make sure that you do not make contact with the ground and the machine at the same time.
- Do not permit anyone to touch the machine until power has been shut off to the power lines.

⚠ Electrical storm safety ⚠

Do not operate machine during an electrical storm.

If you are on the ground during an electrical storm, stay away from machinery and equipment. Seek shelter in a permanent, protected structure.

If an electrical storm should strike during operation, remain in the cab. Do not leave the cab or operator's platform. Do not make contact with the ground or objects outside the machine.

⚠ Mounting and dismounting ⚠

Mount and dismount the machine only at designated locations that have handholds, steps, and/or or ladders.

Do not jump off of the machine.

Make sure that steps, ladders, and platforms remain clean and clear of debris and foreign substances. Injury may result from slippery surfaces.

Face the machine when you mount and dismount the machine.

Maintain a three-point contact with steps, ladders, and handholds.

Never mount or dismount from a moving machine.

Do not use the steering wheel or other controls or accessories as handholds when you enter or exit the cab or operator's platform.

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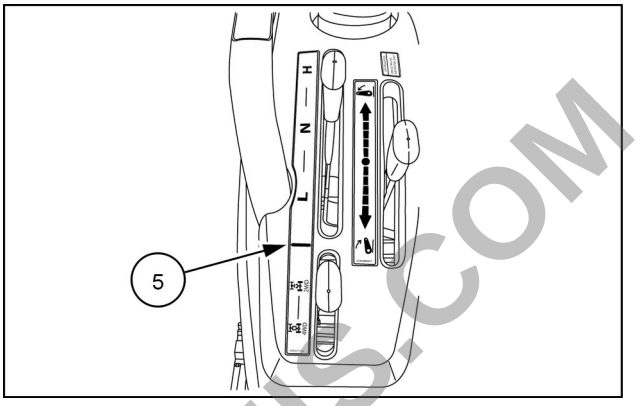
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(5)
Four Wheel Drive (FWD) lever and transmission range lever
Quantity 1
English: MT40372518



40372518-00 10

(5) Located on the right-hand side rear fender besides the operator's seat.

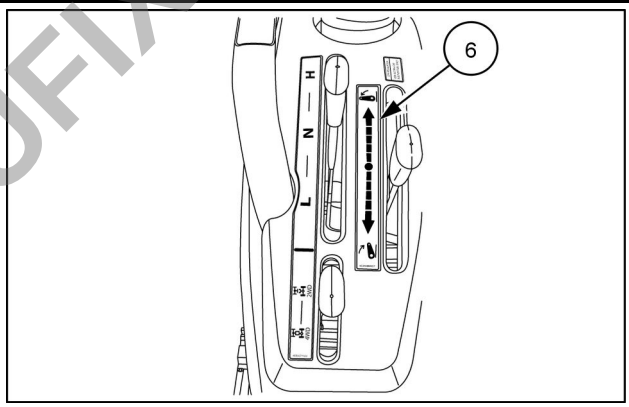


NHIL17CT00450AA 11

(6)
Position control lever
Quantity 1
English: MT40345868


40345868-01 12

(6) Located on the right-hand side rear fender besides the operator's seat.



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Park brake lever

⚠ WARNING

Unexpected movement!
Always engage the parking brake and switch off the engine before exiting the machine.
Failure to comply could result in death or serious injury.

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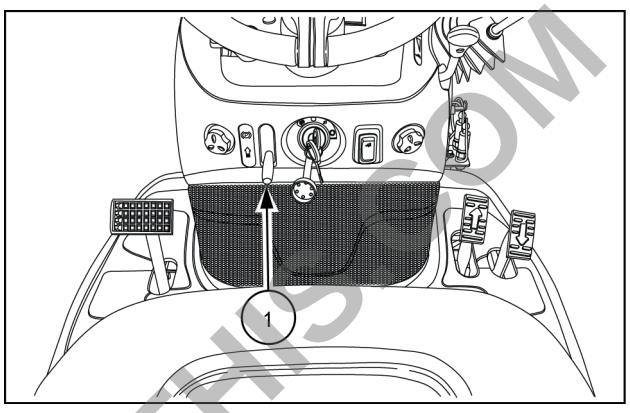
The location of the park brake lever **(1)** is below the instrument panel, to the left-hand side of the key switch.

To engage the park brake depress the service brake pedal and pull upward on the park brake lever. Then release the service brake pedal.

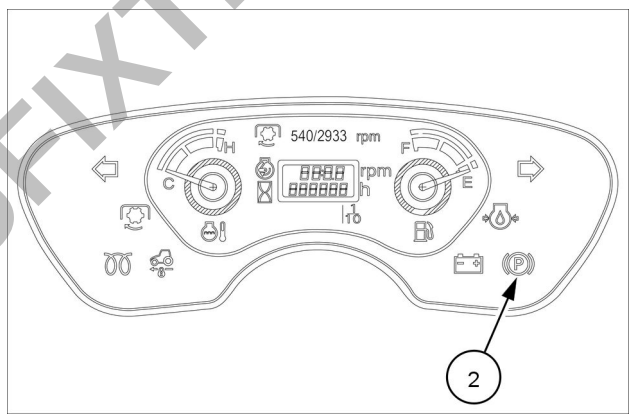
NOTE: *Always engage the park brake when getting off the tractor. If the operator does not engage the brake or the operator leaves the seat without engaging the park brake an alarm will sound. The alarm will continue to sound for approximately ten seconds or until the operator engages the park brake.*

The park brake indicator **(2)** will illuminate on the instrument panel to remind you the park brake is engaged.

To disengage the park brake firmly depress the service brake pedal and the park brake lever will self release. Then release the service brake pedal.



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Starting the unit

Starting the engine

⚠ WARNING

Run-over hazard!
When attempting to start the engine, always sit in the operator´s seat with the parking brake engaged and all control elements in neutral. Never attempt to start the engine while standing beside the machine.
Failure to comply could result in death or serious injury.

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Before starting the engine complete any daily maintenance items. See page **7-8** for daily maintenance items.

Perform the following operations to start the engine.

1. You must be sitting in the operator's seat.
2. Fasten your seat belt.
3. Apply the park brake. See page **3-4** for park brake information.
4. Place the Power Take–Off (PTO) switch in the "OFF" position. See page **3-4** for PTO switch information.
5. Place the PTO shift lever in the "REAR" PTO position. See page **3-4** for PTO shift lever information.
6. Place the transmission range lever in the neutral position. See page **3-4** for transmission range lever information.
7. Hydrostatic Transmission (HST) pedals are in the neutral position. See page **3-4** for HST pedal information.
8. Place the hand throttle lever at 1/4 position. See page **3-4** for hand throttle information.
9. Turn the key switch to the "ON" position. See page **3-4** for key switch information.
10. Verify the oil pressure warning indicator light and battery charge warning indicator lights are lit. See page **3-4** for instrument cluster panel information.
11. Turn the key switch to the "Preheat" position. See page **4-7** for the appropriate preheat times bases on ambient air temperature.
12. Turn the key switch to the "START" position. As soon as the engine starts release the key to allow the key to return to the "ON" position.

    NOTICE: *Do not engage the starting motor continuously for more than 10 seconds. Doing so may cause starting motor failure.*
13. Check if the oil pressure warning indicator light or the battery charge warning indicator lights are lit. Shut off the engine immediately if any of these lights are lit. See page **8-1** for troubleshooting information.

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