# 3 - CONTROLS AND INSTRUMENTS

## ACCESS TO OPERATOR'S PLATFORM

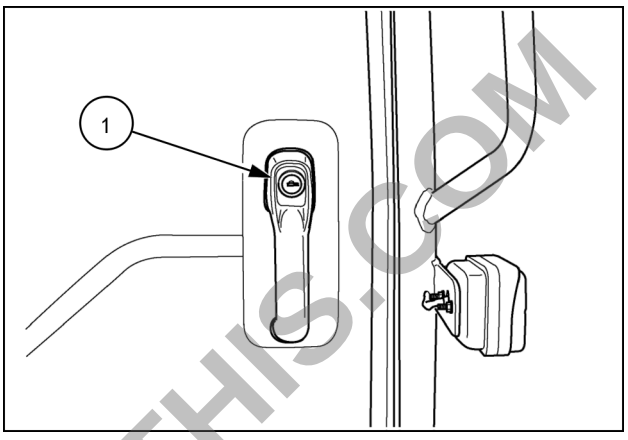
## Doors

### Opening doors from the outside

With the door unlocked, pressed button **(1)** and pull the door towards you.

The opening buttons **(1)** are both fitted with lock and key, so the cab can be locked from either side.

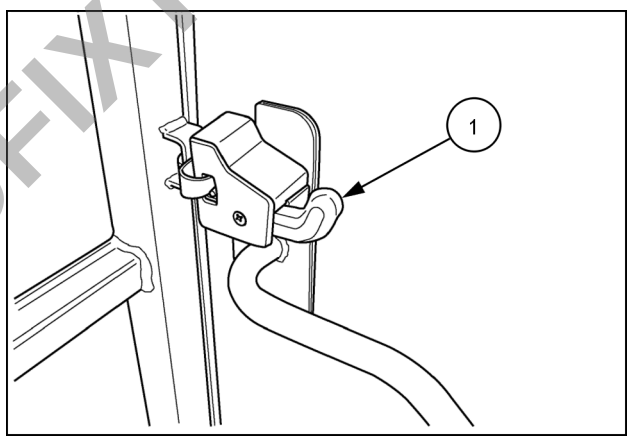
***NOTE:*** *The cab door locks and the tractor ignition switch use the same key, Part number 87640455.*




10054357 1

### Opening doors from the inside

Push the lever **(1)** downwards to exit cab.




10054356 2

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# 4 - OPERATING INSTRUCTIONS

## COMMISSIONING THE UNIT

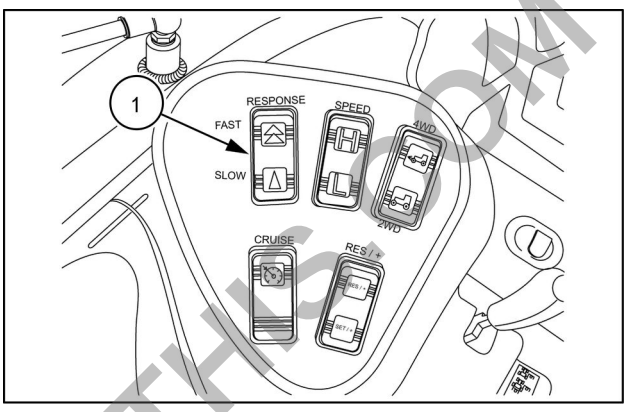
## CVT transmission controls (standard user interface) - settings and adjustments

### (Standard user interface option only)

### Response switch

This feature controls the acceleration and deceleration rate of the tractor, with pre-programmed settings.

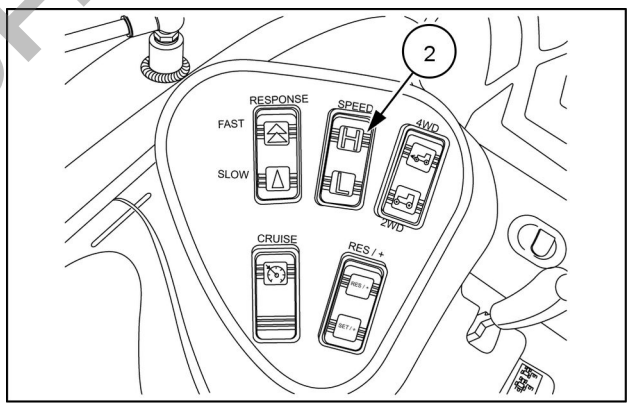
The response switch **(1)** selects between the fast and slow response ranges. Fast response is activated by pressing the portion of the switch with the double arrows forward. Slow response is activated by pressing the portion of the switch with the single arrow rearward. When the switch is in the fast or slow response positions, a light will illuminate inside the switch. The fast response range corresponds to faster acceleration and deceleration of the tractor than the slow response range.




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### Speed range switch

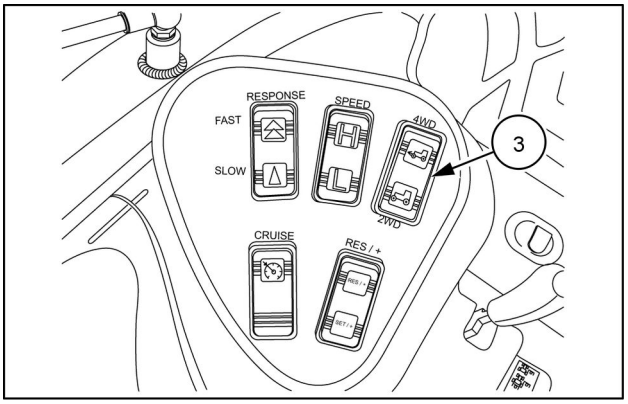
The tractor is equipped with a Speed Range switch **(2)** that has two settings - LOW and HIGH. The operator can change the speed setting by pressing the switch forward or backwards to the desired speed setting, based on driving conditions. By rocking the switch forward, the High range is selected, and the letter “H” is illuminated in the switch. By rocking the switch rearward, the Low range is selected, and the letter “L” is illuminated in the switch.




NHIL12CT00087AA 2

### 4WD engagement switch

The tractor is equipped with a 4WD engagement switch **(3)** that can be changed between 4WD and 2WD modes by pressing the switch forward for 4WD or backwards for 2WD, depending on driving conditions.




NHIL12CT00087AA 3

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# 7 - MAINTENANCE

## GENERAL INFORMATION

## General information

### Safety rules

**⚠ WARNING**

**Avoid injury and/or property damage!**
**1. Disengage all drives.**
**2. Engage parking brake.**
**3. Lower all attachments to the ground, or raise and engage all safety locks.**
**4. Shut off engine.**
**5. Remove key from key switch.**
**6. Switch off battery key, if installed.**
**7. Wait for all machine movement to stop.**
**Failure to comply could result in death or serious injury.**

W0987A

**⚠ WARNING**

**Maintenance hazard!**
**Replace all shields before operating the machine.**
**Failure to comply could result in death or serious injury.**

W0234A

### Warranty notice

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

### General information

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:*** *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.

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

The intervals listed in the Maintenance Chart on page **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 anytime you suspect it is contaminated.

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# Contents


## 1 GENERAL INFORMATION

Note to the owner ..... 1-1
Intended use ..... 1-3
Official documents ..... 1-5
Electro-Magnetic Compatibility (EMC) ..... 1-8
Manual scope and required training level ..... 1-9
Metric and Imperial units abbreviations ..... 1-11
Product Identification Number (PIN) ..... 1-13
Operator's manual storage on the machine ..... 1-15
Machine orientation ..... 1-16
Exhaust Gas Recirculation (EGR) exhaust treatment - Product overview ..... 1-17

## 2 SAFETY INFORMATION

Safety alert symbol and signal word definition ..... 2-1
Safety rules ..... 2-2
Airborn noise emission ..... 2-9
Vibration levels ..... 2-10
Machine stability ..... 2-11
Ecology and the environment ..... 2-14
Safety features ..... 2-15
Safety signs ..... 2-16
Instructional signs ..... 2-27
International symbols ..... 2-34

## 3 CONTROLS AND INSTRUMENTS

### ACCESS TO OPERATOR'S PLATFORM

Doors ..... 3-1

### OPERATOR'S SEAT

Operator's seat ..... 3-2
Seat belt ..... 3-3

### FORWARD CONTROLS

Steering wheel ..... 3-4
Instrument panel ..... 3-5
Analog Digital Instrument Cluster (ADIC) programming ..... 3-11
Analog Digital Instrument Cluster (ADIC) fault codes - Transmission and PTO related 3-24
Analog Digital Instrument Cluster (ADIC) fault codes - Engine related ..... 3-26
Status and warning icons ..... 3-31
Particulate Matter Catalyst ..... 3-34
Hand throttle lever ..... 3-39
Transmission shuttle shift lever ..... 3-40
Multifunction light switch ..... 3-40
Hazard lights switch ..... 3-41


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# 2 - SAFETY INFORMATION

## Safety alert symbol and signal word definition

### 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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## STOPPING THE UNIT

Stopping the engine ..... 4-32
Brakes ..... 4-33
Park brake ..... 4-34

# 5 TRANSPORT OPERATIONS

## ROAD TRANSPORT

Front road lights ..... 5-1
Hazard lights ..... 5-3
Tail/brake lights ..... 5-4
Cab work lights ..... 5-6
Roof beacon (optional) ..... 5-7
Multifunction stalk switch ..... 5-8
License plate light ..... 5-9

## RECOVERY TRANSPORT

Preparation for towing ..... 5-10

# 6 WORKING OPERATIONS

## GENERAL INFORMATION

Filling the fuel tank ..... 6-1
Engine - Running-in Procedure ..... 6-2
Driving the tractor ..... 6-2

## Tractor hydraulics

Hydraulic systems - Safety rules ..... 6-3
Hydraulic power lift (HPL) ..... 6-3
Position control ..... 6-5
Top link lift rocker ..... 6-5
Hydraulic power lift (HPL) drop rate control valve ..... 6-5
Rear remote control valve(s) ..... 6-6
Mid mount two spool control valve ..... 6-7

# 7 MAINTENANCE

## GENERAL INFORMATION

General information ..... 7-1
Torque - Minimum tightening torques for normal assembly ..... 7-3
Exhaust Gas Recirculation (EGR) exhaust treatment - Product overview ..... 7-5
Diesel fuel ..... 7-8
Diesel fuel - Diesel fuel ..... 7-9
Biodiesel fuel ..... 7-10
Organic Acid Technology (OAT) coolant ..... 7-12
Fluids and lubricants ..... 7-13
Capacities ..... 7-13
Jacking points ..... 7-14


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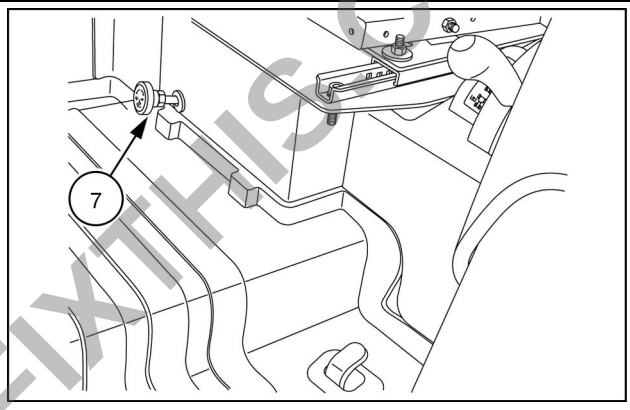
**3-point hitch flow control valve**

**Quantity: 1**
**English Part Number: 86400295**



86400295A 14

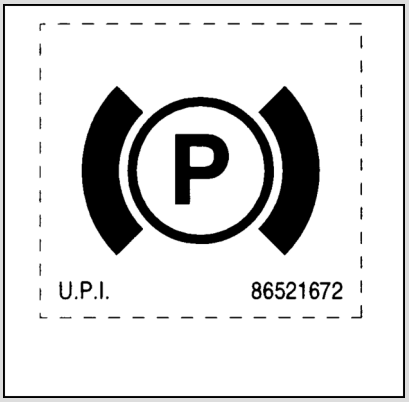
**(7)** Location: Top of flow control valve knob.




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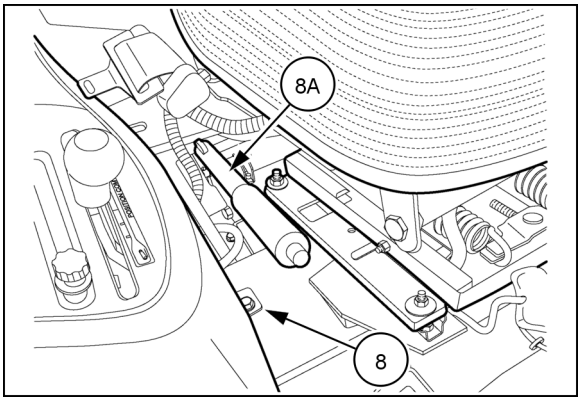
**Park brake**

**Quantity: 1**
**English Part Number: 86521672**




86521672 16

**(8)** Location: Left-hand side of the seat




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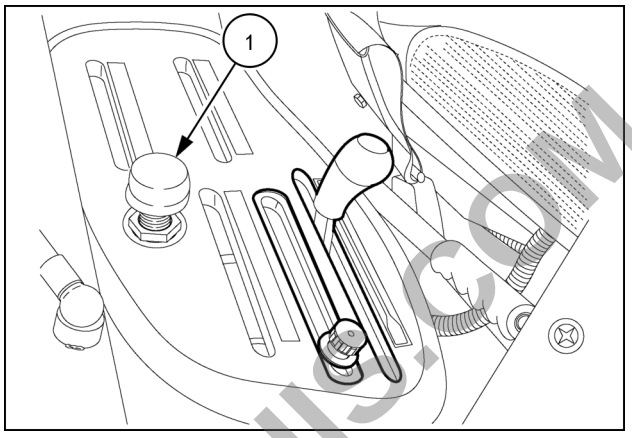
# Power Take-Off (PTO) controls

## Power Take-Off (PTO) controls (independent type)

The PTO is activated by the PTO engagement switch **(1)** located on the right-hand control pod.

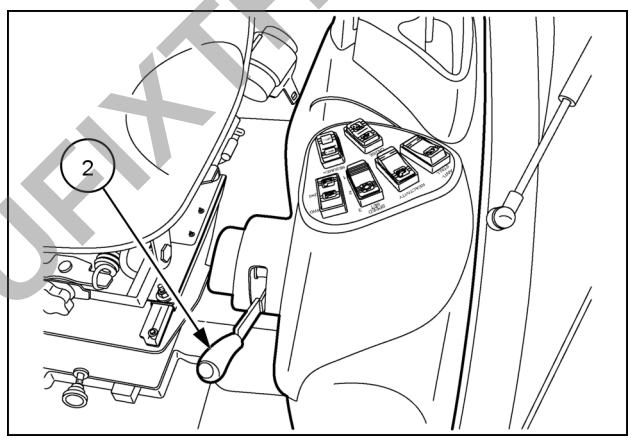
***NOTE:*** *The PTO can not be engaged for 5 seconds after the engine start-up.*

***NOTE:*** *The Boomer 46D/54D tractors can have an optional factory installed* ***2000 RPM*** *mid PTO.*




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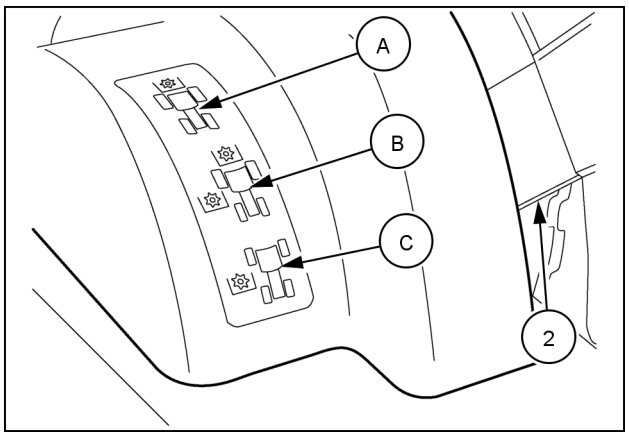
When equipped with mid PTO, the rear and mid PTO can be operated separately or together depending on the position of the PTO selection lever **(2)** located to the left of the operator's seat near the floor. The mid PTO is optional equipment on CVT models.




86083741 2

To engage the PTO, when equipped with mid PTO, move PTO selection lever **(2)** to the desired position for your operational needs. The PTO selection lever has three positions:

- Position **(A)** - Lever in the top position for operation of rear PTO only.
- Position **(B)** - Lever in the middle position for operation of both rear and mid PTO.
- Position **(C)** - Lever in the bottom position for operation of mid PTO only.




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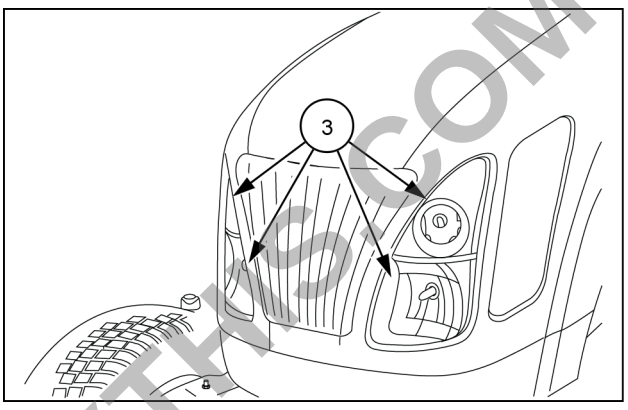
# 5 - TRANSPORT OPERATIONS

## ROAD TRANSPORT

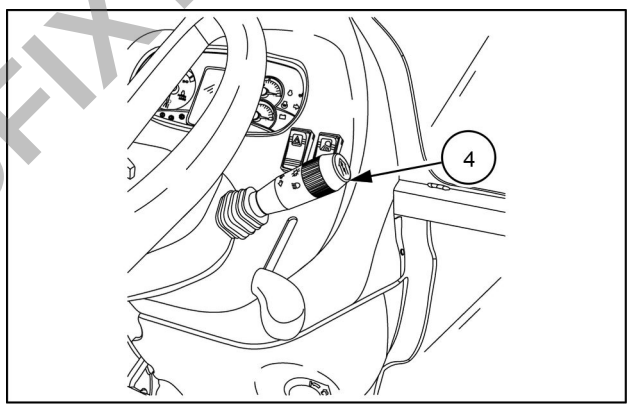
# Front road lights

### Front road lights (Cab models)

The four front road lights **(3)** are controlled by the stalk switch **(4)** located on the right side of the instrument panel.



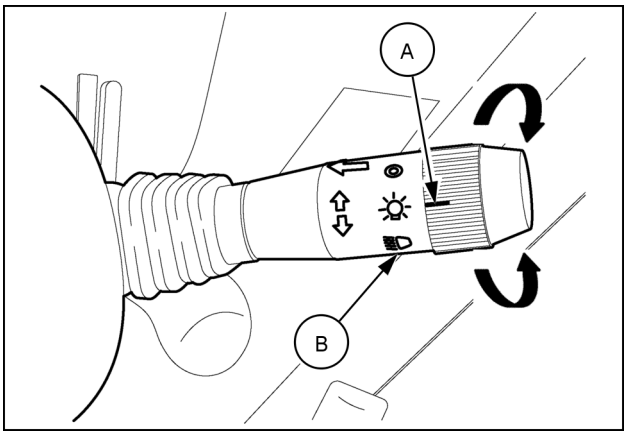

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NHIL14CT00641AA 2

### Road lights low beam

Rotate the end cap of the switch until the index mark **(A)** coincides with symbol **(B)**.




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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.

## ⚠ Working at heights ⚠

When the normal use and maintenance of the machine requires you to work at heights:

- Correctly use installed steps, ladders, and railings.
- Never use ladders, steps, or railings while the machine is moving.
- Do not stand on surfaces that are not designated as steps or platforms.

Do not use the machine as a lift, ladder, or platform for working at heights.

## ⚠ Lifting and overhead loads ⚠

Never use loader buckets, forks, etc. or other lifting, handling, or digging equipment to lift persons.

Do not use raised equipment as a work platform.



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**OPERATOR'S SEAT**

# Operator's seat

## Cab models

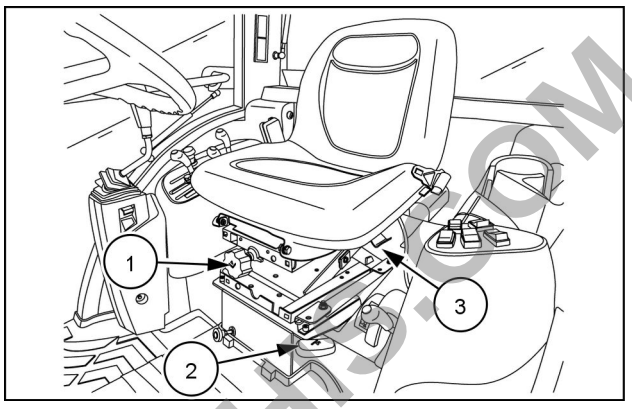
Your tractor is equipped with an adjustable suspension seat.

To adjust the flotation of the seat, turn the knob **(1)** clockwise for a firmer ride, or counterclockwise for a softer ride.

To move the seat fore and aft, raise the release lever **(2)** and slide the seat forward or rearward to the desired position. Because the seat is on an inclined base, more effort is required to move the seat rearward.

To swivel the seat, raise handle **(3)** and rotate the seat ONLY to the right. The seat will rotate and lock at **10°** or **20°** ONLY to the right side.

***NOTE:*** *The swivel seat capability allows the operator to observe rear mounted attachments more easily.*




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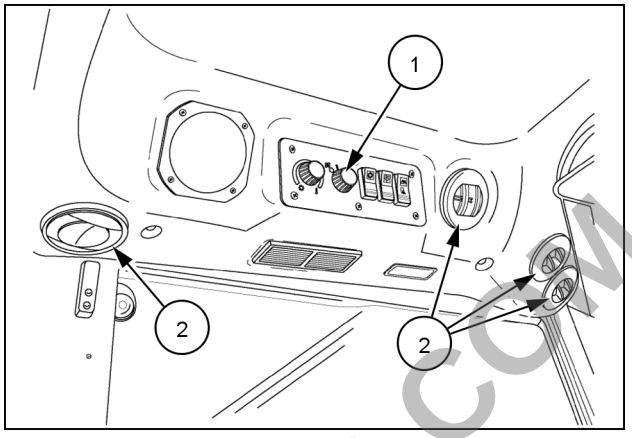
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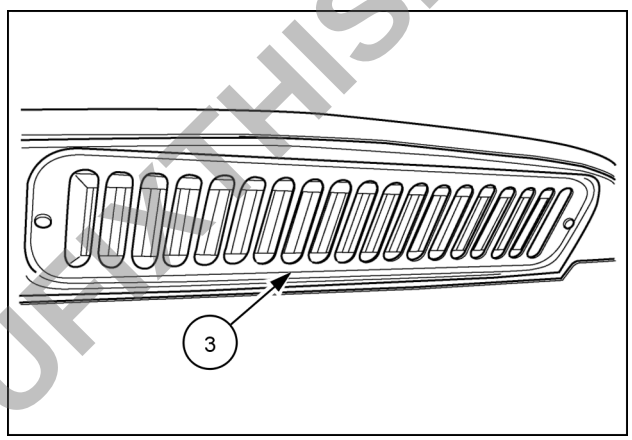
## Ventilation

Actuate ventilation with the fan switch **(1)** and direct the air flow by adjusting front swivel vents **(2)**.




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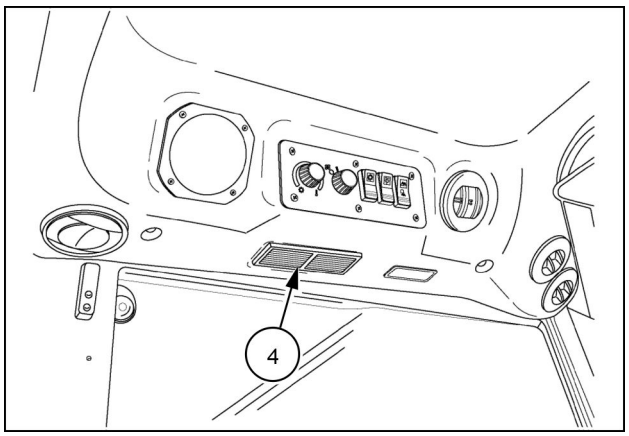
Outside air enters the cab through a vent **(3)** under the cab roof on the right-hand side of the tractor. Fresh air drawn into the cab from outside is always filtered. When the fan is operating with the doors, and windows closed, the pressure inside the cab is higher than the pressure outside, and consequently air can only enter the cab via the side filters.




10054359 4

Air from the heater, air conditioning system, and outside air is circulated through the cab by means of internal vents located above the left and right-hand cab pillars.

Vents **(4)** - underneath air conditioning/heating controls on left-hand pillar.




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