3 - CONTROLS AND INSTRUMENTS

Access to operator's platform

Getting in and out of the machine

⚠ 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

⚠ CAUTION

Fall hazard!
When entering or exiting the cab, never use the control levers as handholds. Always mount and dismount the machine in a safe way. Maintain a three-point contact with steps, ladders, and/or handholds. Failure to comply could result in minor or moderate injury.

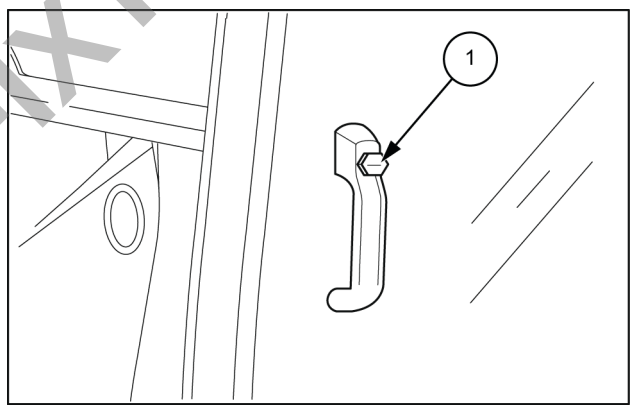
C0075B

Opening doors from outside

A wide opening door on the left- hand side permits entry to the cab aided by convenient grab handles and footstep with anti- slip treads.

The right- hand door should only be used in emergencies to exit the cab.

Use the ignition key to lock or unlock the cab door from the outside. With the door unlocked, press button **(1)** and pull the door towards you. The door is fitted with gas struts to hold them in the fully open position



MOIL13TR01420AA 1

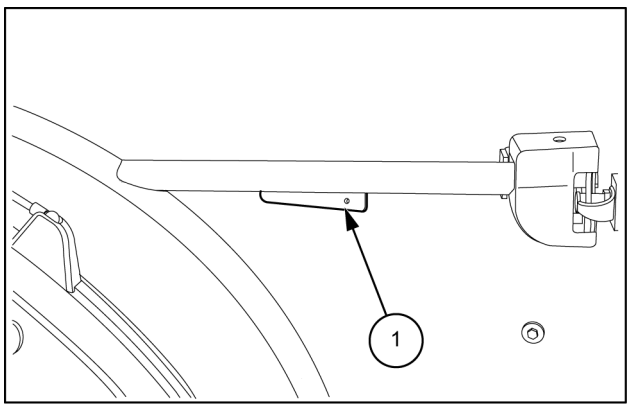
Before climbing on, check that the step treads are clean and free of dirt and foreign substances. Slippery areas can be a cause of accidents.

Climb the steps facing inwards and enter the cab. Sit in the driver's seat and fasten the safety belt.

Opening the doors from the inside

To leave the cab, release the safety belt, press the release lever **(1)** under the grab handle. Use the grab handle to push the door open.

Climb down the steps facing inwards.



MOIL13TR02125AB 2

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4 - OPERATING INSTRUCTIONS

Commissioning the unit

Basic operating safety rules

⚠ WARNING

Inhalation/asphyxiation hazard!
Make sure there is proper ventilation before starting the engine.
Failure to comply could result in death or serious injury.

W0091A

⚠ WARNING

Unexpected machine movement!
Before starting the engine, move all operating controls to neutral or park lock position. This prevents accidental movement of the machine or start up of power-driven equipment.
Failure to comply could result in death or serious injury.

W0302A

⚠ WARNING

Hazard to bystanders!
ALWAYS make sure the work area is clear of bystanders and domestic animals before starting this procedure. Know the full area of movement of the machine. Do not permit anyone to enter the area of movement during this procedure.
Failure to comply could result in death or serious injury.

W0245A

⚠ WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY.
MAKE SURE THAT EVERY OPERATOR:
-is instructed in the safe and proper use of this machine.
-reads and understands the operator's manual for this machine.
-reads and understands ALL safety signs on the machine.
Failure to comply could result in death or serious injury.

W0188A

⚠ WARNING

Avoid injury!
Carefully read and observe all the precautionary advice contained in this manual.
Failure to comply could result in death or serious injury.

W0044A

⚠ WARNING

Misuse hazard!
Before starting the engine, make sure you are fully aware of the location and the function of each control.
Failure to comply could result in death or serious injury.

W0226A

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7 - MAINTENANCE

General information

General safety before you service

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.
Failure to comply will result in death or serious injury.

D0010A

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Any unauthorized modifications made to this machine can have serious consequences. Consult an authorized dealer on changes, additions, or modifications that may be required for this machine. Do not make any unauthorized modifications.
Failure to comply will result in death or serious injury.

D0030A

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
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.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W1023A

⚠ WARNING

Maintenance hazard!
Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area.
Failure to comply could result in death or serious injury.

W0004A

⚠ WARNING

Maintenance hazard!
Always perform all service procedures punctually at the intervals stated in this manual. This ensures optimum performance levels and maximum safety during machine operation.
Failure to comply could result in death or serious injury.

W0132A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Read and understand the SAFETY INFORMATION Section before you perform any maintenance, service, or repairs. Read and understand the specific service procedures for the components you plan to work with before you start servicing the machine.
Failure to comply could result in death or serious injury.

W0138A

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2 - SAFETY INFORMATION

Safety rules - General information

⚠ General safety rules ⚠

Use caution when operating the machine on slopes. Raised equipment, full tanks and other loads can change the center of gravity of the machine. The machine can tip or roll over when near ditches and embankments or uneven surfaces.

The tractor must only be used by responsible personnel, trained in tractor use and authorised to operate the machine.

Do not use the machine when inebriated, under the influence of drugs or in any other condition of physical or mental impairment.

When digging or using ground engaging attachments, be aware of buried cables. To determine the location of the utilities, contact your local authorities.

Pay special attention to overhead power lines and hanging obstacles. High voltage power lines may require considerable safety distances.

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause severe skin infection or injury.

- Do NOT use your bare hands to check for leaks. Use a piece of cardboard or a piece of paper.
- Stop the engine, remove the key and relieve the pressure before connecting or disconnecting fluid lines
- Make sure all components are in good condition and tighten all connections before starting the engine or pressurizing the system.
- Should hydraulic fluid or diesel fuel penetrate the skin, seek medical attention immediately.
- Continuous long term contact with hydraulic fluid may case skin cancer. Avoid lengthy contact and wash the skin immediately with soap and water.

Keep well clear of all moving parts. Loose clothing, jewelry, watches, long hair, and other loose or hanging items can become entangled in moving parts.

Always wear the Personnel Protective Equipment (PPE) when appropriate.

Do NOT attempt to remove the material from any part of the machine while the machine is operated or its components are running.

Make sure that all guards and shields are in good condition and properly installed before you operate the machine. Do not operate the machine without the safety devices and guards.

Do NOT allow any person or animal to enter the working area of the machine.

Enter and leave the tractor using the steps and handles provided. Dirty or slippery steps, ladders, walkways and platforms can cause falls. Make sure these surfaces remain clean and clear of debris.

Always operate with the cab or roll bar correctly and securely fitted on the tractor: periodically check that the fittings are not loose and that all parts of the structure are free from any damage and deformation. Do not modify the roll bar by welding parts, drilling holes, etc., as this could adversely affect the rigidity of the structure.

Never operate engine in enclosed spaces as harmful exhaust gases may build up.

Before starting the machine, be sure that all controls are in neutral or park lock position.

Start the engine only from the operator's seat. Before starting the engine, make sure the handbrake is locked and that all the operating controls are in neutral. The tractor is equipped with a device to enable starting. Never disconnect the start-up safety switch. If the switch does not work correctly, contact your local dealer for any repair operations.

Always keep windows, mirrors and all the lights clean to provide the best possible visibility while you operate the machine.

Before you leave the machine:

- Park the vehicle on a hard, level surface.
- Put all controls in neutral or park lock position.
- Apply the parking brake Use wheel chocks if required.
- Lower all the equipment.
- Turn off the engine and remove the key.

Safety rules – Maintenance

⚠ General maintenance safety rules ⚠

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- Eye and/or face protection.
- Hard hat.
- Heavy gloves.
- Filter mask.
- Hearing protection.

- When machine maintenance requires you to work at heights:
  - Correctly use machine steps, ladders, and/or hand holds.
  - Do not stand on machine areas that are not designed as steps or platforms.
  - When necessary, use an appropriate ladder to reach components such as mirrors, rotating beacons, or air filters.
  - Never use steps, ladders, and/or hand holds when the machine is in motion.
  - Do not use the machine as a lift, ladder, or platform for working at heights.
- If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
- Any unauthorized modifications made to this machine can have serious consequences. Consult an authorized dealer on changes, additions, or modifications that may be required for this machine. Do not make any unauthorized modifications.

See **2-1** - **7-4**.

I Hydraulic hoses.

You must periodically inspect the hydraulic hoses. See the Maintenance chapter for general inspection precautions. The hoses do not require any operator-performed maintenance. Always see your NEW HOLLAND dealer for hydraulic hose repair or replacement.

J Towing the machine.

Incorrect towing procedures can cause accidents. When towing your machine, follow the procedure in this manual .(See **5-3**).

K Using jacks.

Jack the machine only at the jack points indicated in this manual. See **2-27**.

L Batteries and fuel tank.

See **7-61** for the specific battery maintenance operations. See **4-2** for instructions on how to refuel the machine.

When you work with machine batteries, observe the following precautions:

To prevent an explosion:

- Always disconnect the negative (-) battery cable first.
- Always connect the negative (-) battery cable last.
- Do not short circuit the battery posts with metal objects.
- Do not weld, grind, or smoke near a battery.
- Do not create sparks or have open flame near a battery.
- When you use auxiliary batteries or connect jumper cables to start the engine, use the procedure shown in the operator’s manual.
- Charge the batteries properly. Batteries emit explosive hydrogen gas and other fumes while charging.
  - Ventilate the charging area.
  - Keep the battery away from sparks, open flames, and other ignition sources.
  - Never charge a frozen battery.
- Avoid contact with battery acid. Battery acid causes burns. Batteries contain sulfuric acid.

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Seat belt

⚠ WARNING

Equipment failure could cause accident or injury!
Always fasten seat belt securely before operating the machine. Inspect seat belt parts for wear and/or damage. To ensure operator safety, replace any and all damaged parts of the seat belt prior to operation.
Failure to comply could result in death or serious injury.

W0046A

⚠ WARNING

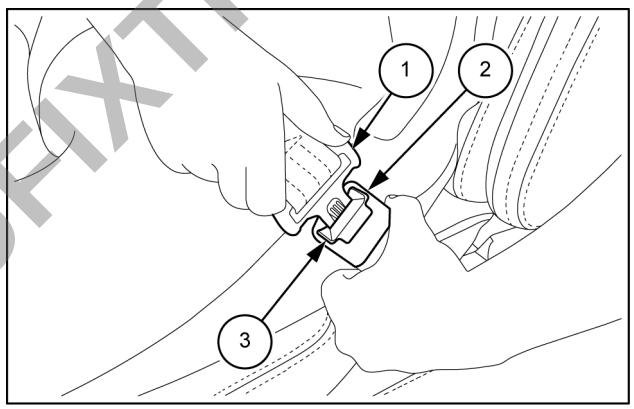
Roll-over hazard!
Securely fasten the seat belt. Your machine is equipped with a Roll-Over Protective Structure (ROPS) cab, ROPS canopy, or ROPS frame for your protection. The seat belt can help ensure your safety if it is properly used and maintained. Never wear a seat belt loosely or with slack in the belt system.
Failure to comply could result in death or serious injury.

W0143A

Before using the tractor, fasten the safety belt. At regular intervals, carefully inspect the safety belts to check that there are no worn parts and replace them when necessary.

Adjust the position of the operator's seat. Pull the safety belt onto your body, into the lowest position possible over the abdomen. Push the metal eyelet of the insert **(1)** into the buckle **(2)** until you hear it click to indicate that it has coupled correctly.

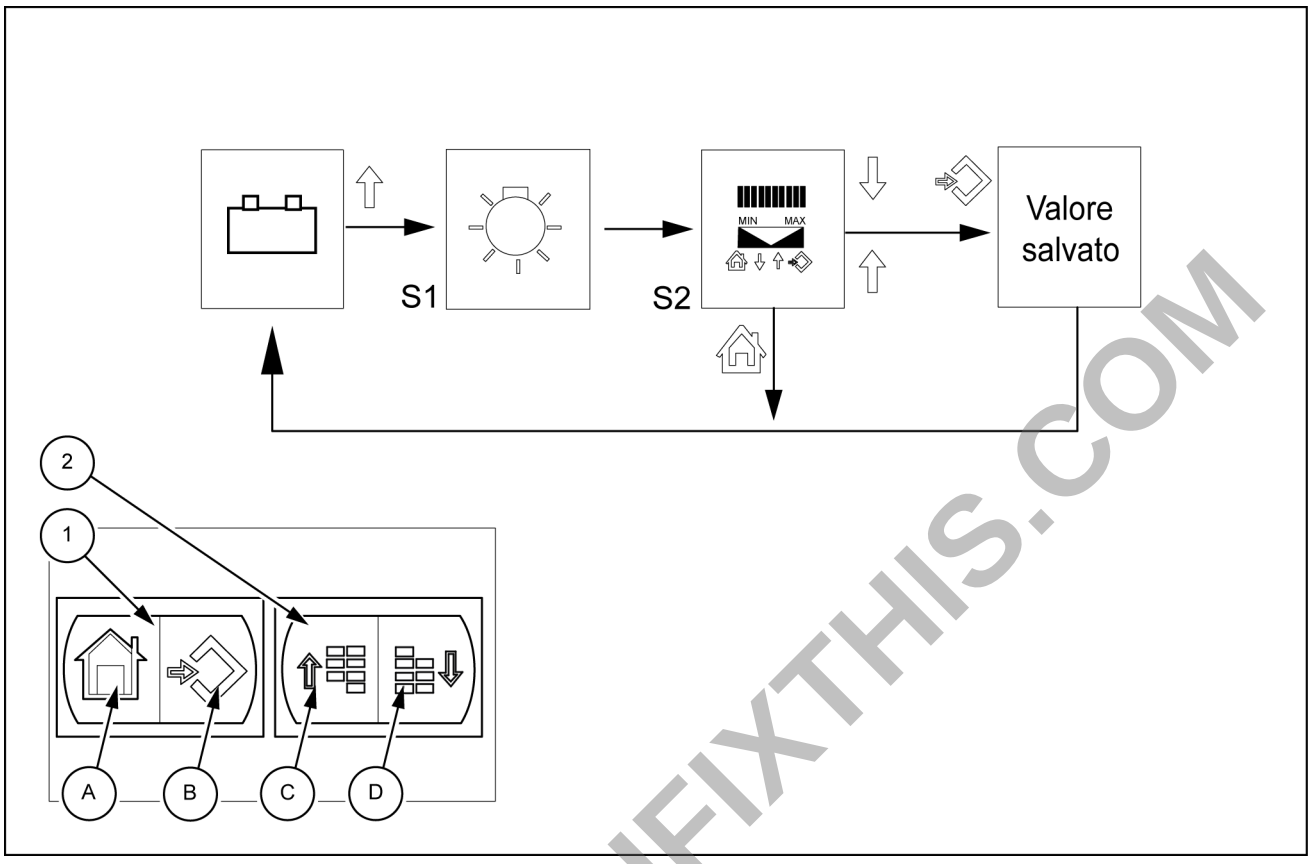
To unfasten the safety belt, press the red button **(3)** in the middle of the buckle, then separate the buckle and the metal eyelet.



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MOIL17TR00820FA 2

Central display brightness

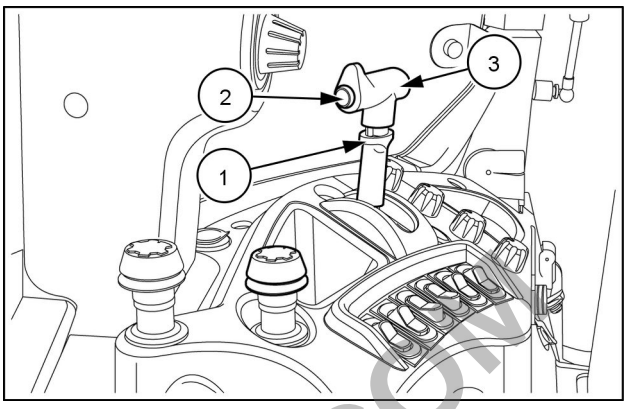
- With power to the instrument cluster on, press and hold the switch **(2)** on the symbol **(D)** for **3 s**.
- The central display will show the detail **(S1)**.
- Release the direction key to pass on to the next screen **(S2)**.
- Press the switch **(2)** on the symbol **(C)** to increase or on the symbol **(D)** to decrease the brightness of the central display until you reach the desired brightness.
- Press the switch **(1)** on the symbol **(B)** to save the setting.
- **2 s** after saving you are automatically returned to the initial condition.
- Press the switch **(2)** on the symbol **(D)** again to exit the programming menu.

NOTE: *If you want to stop the adjustment without saving, press the switch **(1)** on the symbol **(A)** to exit the adjustment.*

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3. Pull the collar **(1)** upward. At the same time, press the power take-off brake release button **(2)** and move the selection lever **(3)** into the neutral position (N).



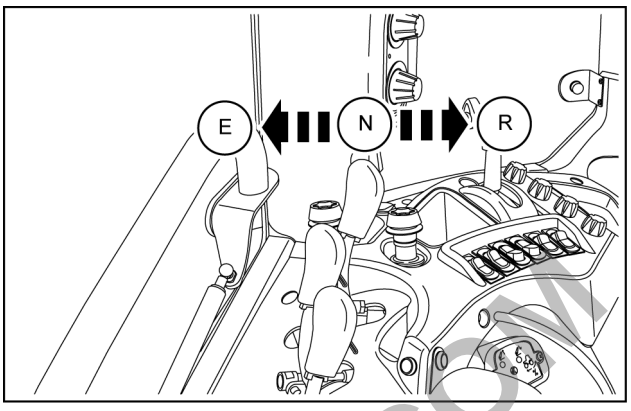
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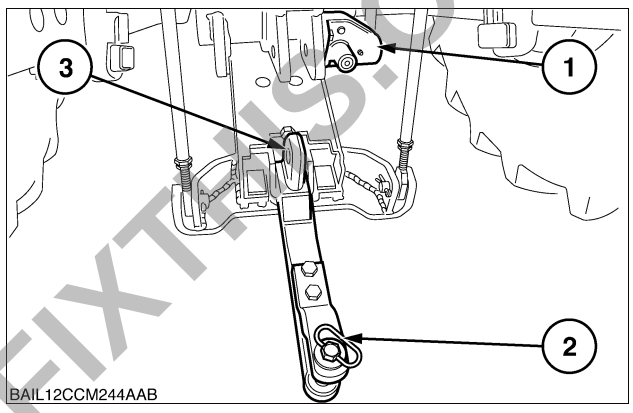
Operated through one of the rear remote valves, the hitch is extended or retracted using the remote valve lever. The hoses should be connected in such a way that moving the remote valve lever to **(E)** (Extend) will extend the hitch, moving the lever to **(R)** (Retract) will retract the hitch.

- Lower the hitch to detach it from the locking latches.
- Extend the hook or the drawbars back by moving the control valve lever to **(E)**.
- With the drawbar extended, continue to lower the hitch until it is just above the ground.



MOIL13TR00319AA 4

- Position the tractor so that the hitch hook **(2)** is beneath the eye of the implement drawbar.
- Raise the hitch until the drawbar lifts slightly from the ground, by turning the Position Control clockwise.
- Fully retract the pick- up hitch by moving the remote valve lever to **(R)**.
- Release the tractor brakes to move towards the implement to make it easier to retract the hitch.
- Raise the drawbar slowly, with the hitch in the fully retracted position, until an audible click indicates the locking latch **(3)** has engaged and that the latching mechanism indicator button **(1)** is now flush in the latch housing.
- Re-apply the hand brake before leaving the tractor seat.



BAIL12CCM244AAB 5

NOTICE: *The hitch must be fully retracted before it will latch correctly. If difficulty is experienced in latching or unlatching the hitch, refer to chapter 7 for adjustment of the latching mechanism.*

- Turn the position control counter-clockwise so that the weight of the pick- up hitch (and attached implement) is supported by the locking latches.

⚠ WARNING

Driving hazard!
Before operating the machine, slightly lower the three point hitch and visually inspect the connection to be sure the locking latches fully support the pick-up hitch.
Failure to comply could result in death or serious injury.

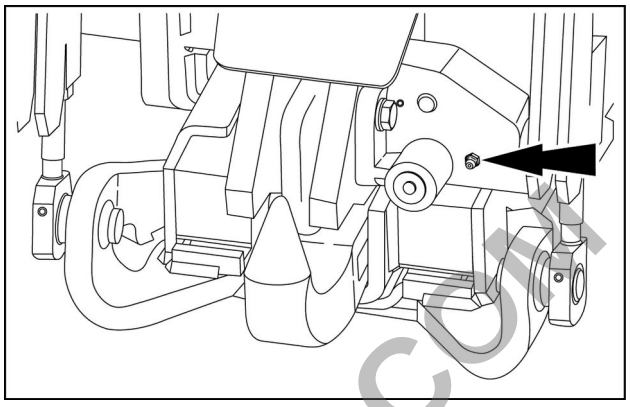
W0418A

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Automatic pickup hitch - Grease

1. Use a grease gun to pump **NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE** grease into the lubricating nipple shown.

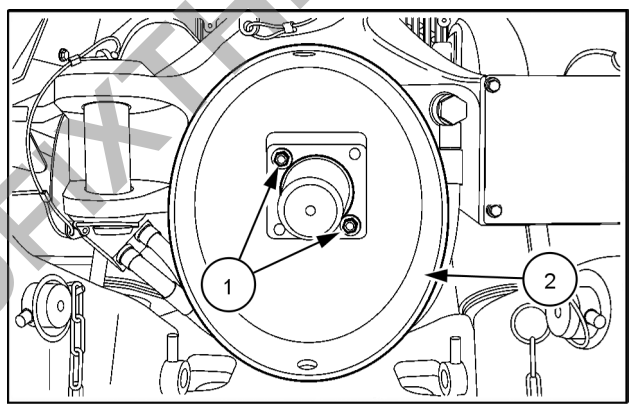


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Front Power Take-Off (PTO) housing - Check - Oil Level

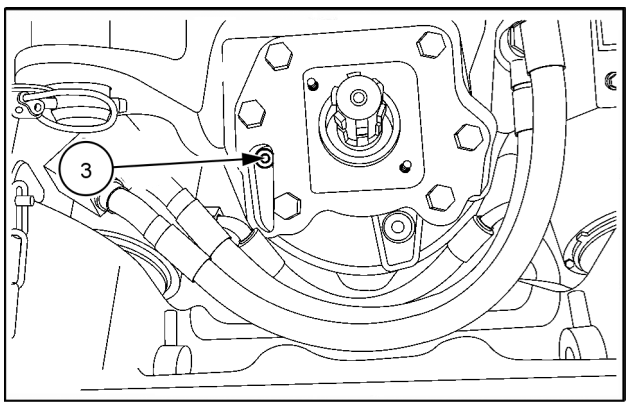
To check the oil level for the front PTO, proceed as follows:

1. Park the tractor on level ground and engage the handbrake and/or locking brake.
2. Remove both nuts **(1)**.
3. Remove the guard from the front PTO **(2)**.



MOIL16TR02062AA 1

4. Remove the level plug **(3)** and check that the oil reaches the bottom of the hole.



MOIL16TR02063AA 2

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Make sure that tires are correctly inflated. Do not exceed any recommended load or pressure. Follow the instructions in the manual for proper tire inflation.

Do not exceed the speeds shown on the tires, as this both overheats and causes premature tire wear.

After fitting tires, check that the wheel nuts are tight after three hours in operation.

Do not stand tires on hydrocarbons (oil, diesel, grease, etc.).

The tires fitted on the tractor must be checked periodically, with special care given to:

- the tread, which should wear uniformly.
- the walls, which must not have cracks, bulges or abrasions.

Have the tires checked by a specialist if one or more of the problems mentioned above should occur.

Cracks on the walls, sometimes accompanied by bulges, are a sign of ageing.

Tires fitted on tractors which are not used for extended periods tend to age more rapidly than those used more frequently. In this event, it is advisable to raise the tractor from the ground and protect the tires from direct sunlight.

Do not use tires ballasted with liquid when driving on roads.

If using a solution of calcium chloride for filling the tires with liquid ballast.

- SLOWLY add the calcium chloride flakes to the water, stirring continuously.
- To avoid a violent reaction, NEVER add water to the calcium chloride.
- If the flakes should come into contact with the eyes, wash the eyes immediately with clean, cold, running water for at least 15 minutes. Consult a doctor promptly.

Safety rules – Explosions and fires

⚠ Fire and explosion prevention ⚠

Fuel and oil that is leaked or spilled on hot surfaces or electrical components can cause a fire.

Crop material, branches, debris, bird nests, or flammable material can ignite on contact with hot surfaces

Remove branches and debris from the machine at least once a day and always at the end of the working day, especially from the areas surrounding the hot components such as the engine, the transmission, the exhaust, the battery, etc. Depending on the working environment and conditions, more frequent cleaning may be necessary.

Always keep a fire extinguisher on the machine or in the immediate vicinity of the machine.

Make sure that the fire extinguisher(s) is maintained and serviced according to the manufacturer's instructions.

Inspect the electrical system for loose connections and frayed insulation. To repair or replace loose or damaged parts, contact your authorized dealer.

Do not store oily rags or other flammable material on the machine.

Never perform welding or flame cutting on the cab, protective frame, wheel rims, or wheel discs.

Do not expose the machine to flames, brushwood fires, or explosives.

Use a non-flammable solvent to clean the parts of the tractor.

Promptly investigate any unusual smells or odors that may occur during operation of the machine.

Safety rules - Fire extinguisher

⚠ Fire extinguisher ⚠

Only operate your tractor when an approved fire extinguisher is installed. The correct position for the fire extinguisher is shown on the sticker on the tractor.

Never alter its position or remove it.

Make sure to only install a suitable, approved fire extinguisher.

Ensure to replace it or have it checked or refilled after every usage and/or date of expiry according to manufacturer's maintenance prescriptions.

It is not intended for use on an out−of−control fire, such as one which has reached the ceiling, or the operator ; it is meant only to help you

To check if the extinguisher is still under pressure,proceed as follows:

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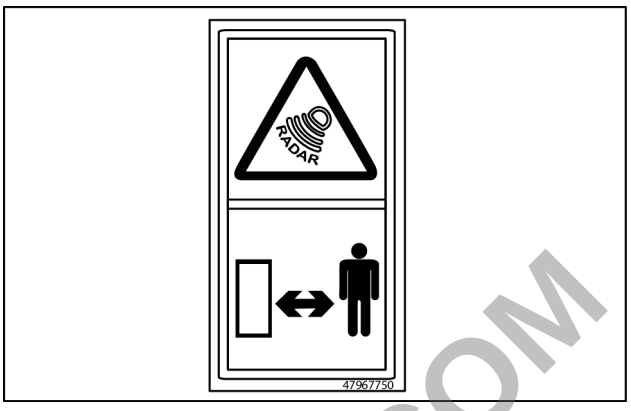
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(10) Position: applied to the right-hand side near the radar.
Part Number: 47967750

WARNING
Eye injury hazard!

The radar ground speed sensor emits a low intensity microwave signal that will not cause any ill effects in normal use. Although the signal intensity is low, do not look directly into the face of the sensor while in operation.

Failure to comply could result in death or serious injury.



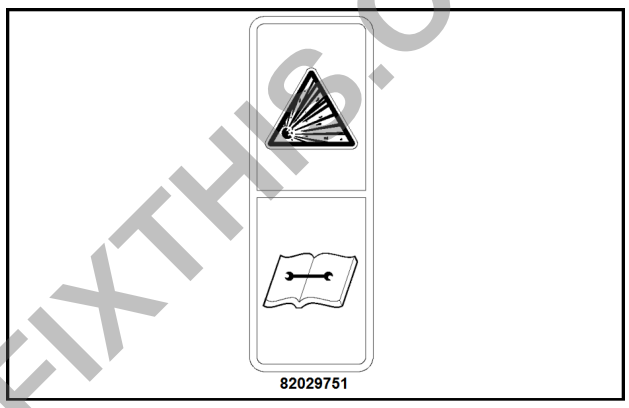
47967750 11

(11) Position: applied on the hydraulic accumulators.
Part Number: 82029751

WARNING
Explosion hazard!

High pressure hydraulic/gas accumulator. Avoid to remove or repair. Contact your dealer for any repair operations.

Failure to comply could result in death or serious injury.

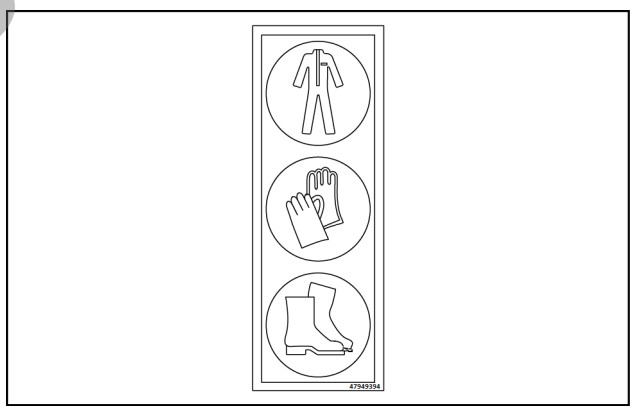


82029751 12

(12) Position: applied outside on the left-hand door.
Part Number: 47949394

WARNING
Personal protective equipment (PPE).
Wear all the appropriate Personal Protective Equipment (PPE) suited to the task in hand.

Failure to comply could result in death or serious injury.

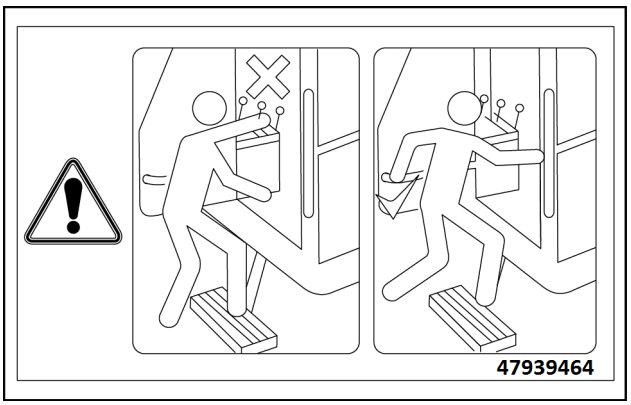


47949394 13

(13) Position: applied to the right-hand and left-hand side of the console.
Part Number: 47939464

WARNING
Risk of falling.
Always use the grab handles when entering or leaving the tractor. Do not use the steering wheel or other controls as hand rails.

Failure to comply could result in death or serious injury.



47939464 14

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SCR system technical faults, failures, and engine power loss levels

There are two types of strategies that are applied to your machine based on the type of failure that occurs.

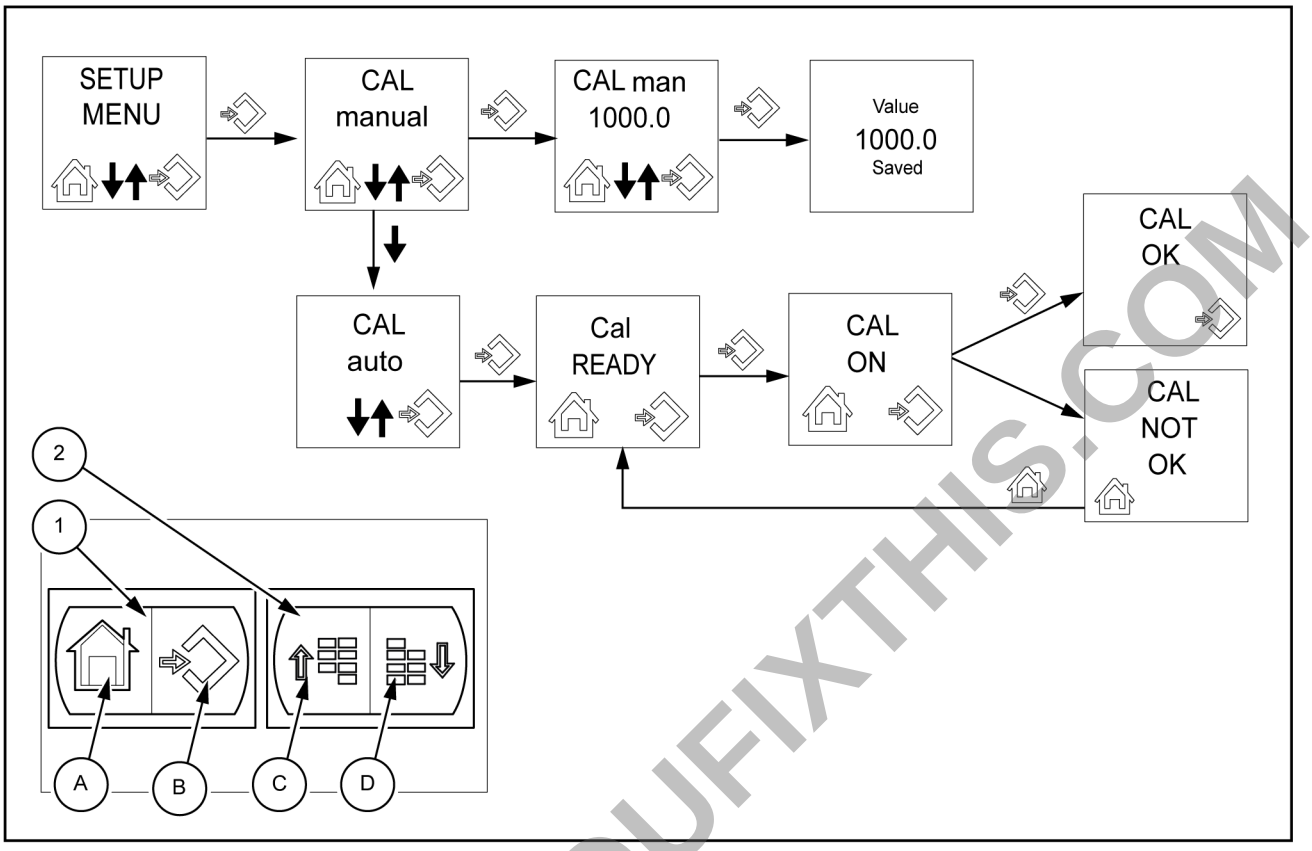
- If there are electrical faults, use figure **4**.
- For faults that require the SCR system to be operational, use figure **5** and refer to the section on validation re-starts.

NOTE: *You can restart the engine and receive full engine power up to two times at any point after the machine detects a fault. However, if the machine detects the same fault within 40 operating hours, torque will be reduced to 50% and the engine will be reduced to idle immediately. If you attempt a third restart, the engine will be locked at 50% torque and engine idle. Contact your NEW HOLLAND dealer to reset the engine restart counter and resolve the fault causing the loss of productivity.*

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Ground speed calibration



MOIL17TR00813FA 1

NOTE: *This setting is not present if the radar unit is installed.*

Check that the rolling circumference of the rear tyres fitted is that shown on the “CAL manual” screen. If not, you will need to recalibrate the electronic control unit in order to display the precise ground speed. It is possible to recalibrate the module manually or automatically.

Manual Calibration

To calibrate the module manually, you will need to know the rolling circumference (RC) of the new rear tyre.

- Press the switch **(1)** on the symbol **(B)** for longer than three seconds to enter the programming menu “SETUP MENU” will appear on the display. Release the switch. “CAL” will appear on the display.
- Press and release the switch **(1)** on the side with the symbol **(B)**; “CAL manual” will appear on the display.
- Press and release the switch **(1)** on the symbol **(B)**.
- Press the switch **(2)** on the symbol **(C)** to change the flashing value; press the same switch on the symbol **(D)** to move to the next digit. This enables you to enter the rolling circumference of the new tyre.
- Press the switch **(1)** on the symbol **(B)** to save the new measurement entered.

If you want to stop the display, press the switch **(1)** on the symbol **(A)**. Press the same symbol again to exit the programming menu.

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5 - TRANSPORT OPERATIONS

Road transport

Transporting the machine

⚠ WARNING

Transport hazard!
The machine can slip or fall from a ramp or trailer. Make sure the ramp and trailer are not slippery. Remove all oil, grease, ice, etc. Move the machine on or off the trailer with machine centered on the trailer or ramp.
Failure to comply could result in death or serious injury.

W0152A

⚠ WARNING

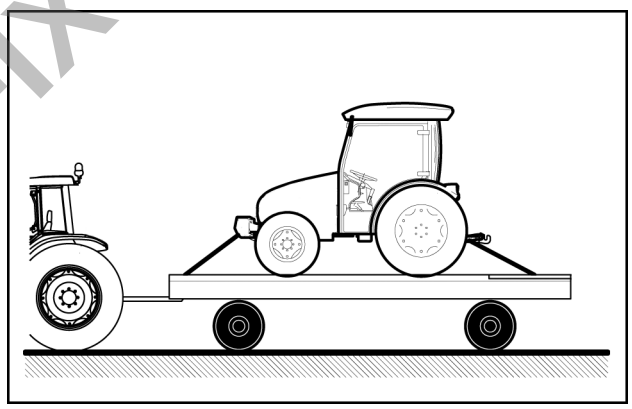
Transport hazard!
Collision of high speed road traffic and slow moving machines can cause death or personal injury. On roads use transport lighting according to local laws. Make sure the Slow Moving Vehicle (SMV) emblem is visible.
Failure to comply could result in death or serious injury.

W0244A

To transport the tractor, it is necessary to use a suitable means of transportation, such as a truck with a platform or a trailer with a double axle.

Engage Park Brake.

Secure the tractor to the means of transport, using suitable anchoring straps or chains. Secure the rear of the tractor using the drawbar or drawbar supports. Secure the front of the tractor using the towing hook.



DCUTLNEIT012S5A 1

NOTICE: *Do not hook or connect chains around the front axle drive shaft, the power steering cylinders, the front axle itself or other parts of the tractor which could be damaged either by the chains or excessive strain.*

On models fitted with the turbocharger, cover the exhaust outlet to prevent the turbocharger from rotating in the wind, damaging the bearings. The turbocharger turbine must be prevented from rotating freely (with the engine off), as the shaft bearings will not be lubricated in that condition.

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