4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Engine - Safety rules

⚠ WARNING

Unexpected machine movement!
Before starting the engine, be sure all controls are in neutral or disengaged. This prevents the accidental start up of power-driven equipment.
Failure to comply could result in death or serious injury.

W0169A

⚠ WARNING

Inhalation hazard! Risk to operators and bystanders.
Avoid running the engine in confined areas. Make sure there is adequate ventilation at all times.
Failure to comply could result in death or serious injury.

W0156A

⚠ WARNING

Hazard to bystanders!
Make sure the area surrounding the machine is clear of all persons before starting the engine.
Failure to comply could result in death or serious injury.

W0090A

First tractor use

Before starting your tractor for the first time, make the following checks:

- Make sure the tractor is properly lubricated and greased as described in the maintenance section of this manual.
- Check the engine oil level, engine coolant level, and transmission oil. See the maintenance section of this manual.
- Check that the tractor fuel tank is filled with clean fuel that meets the specifications given in this manual.
- Check that the tractor Diesel Exhaust Fluid (DEF)/AdBlue® tank is filled with clean fluid that meets the specifications given in this manual.
- Check the fuel system, Selective Catalytic Reduction (SCR) system, cooling system and engine for leaks.
- Remove any water or sediment from the water trap of the fuel tank and primary filter.
- Check the air pressure in the tires and check the wheel bolt torque.
- Make sure the Power Take-Off (PTO) guard is in the proper position.

Daily inspection

- Walk around and visually inspect the tractor daily. Check for such items as hoses or wires rubbing against other components, oil leaks, trash buildup, loose bolts or anything that would affect the normal operation of the tractor.
- Inspect the exhaust system and repair if leaking, failed, or damaged.
- Make any necessary corrections before operating the tractor.

Seat belts

Always securely fasten your seat belt before operating the tractor. From time to time, carefully inspect the seat belts for worn areas and replace belts when needed.

NOTE: *An operator presence safety switch is linked to the transmission and Power Take-Off (PTO) control logic and is activated by the operator sitting on the seat.*

⚠ 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

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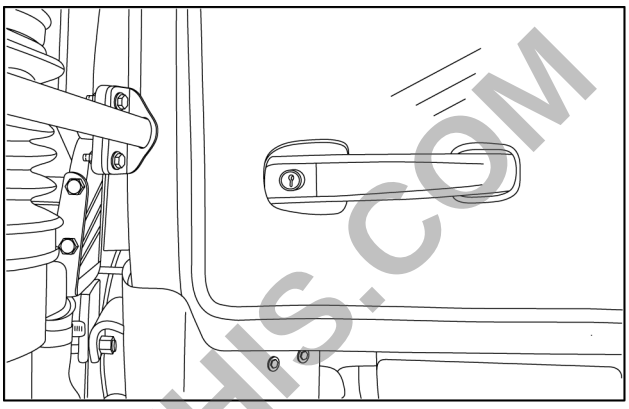
3 - CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Tractor access

Cab door lock

Use the key to lock or unlock the cab door from the outside.



RAIL14TR00380AA 1

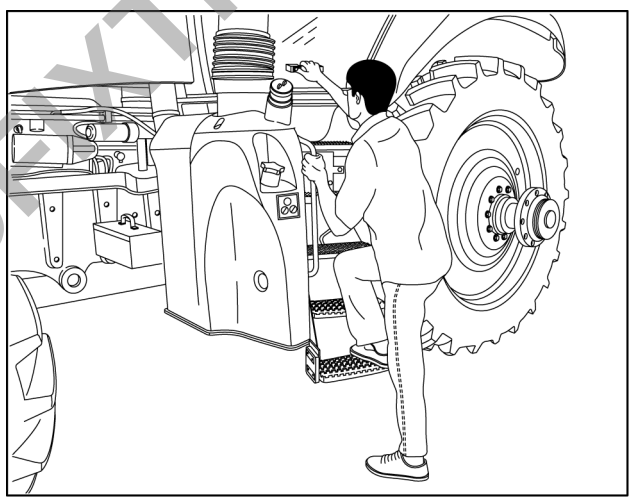
Entering/leaving the cab

⚠ 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

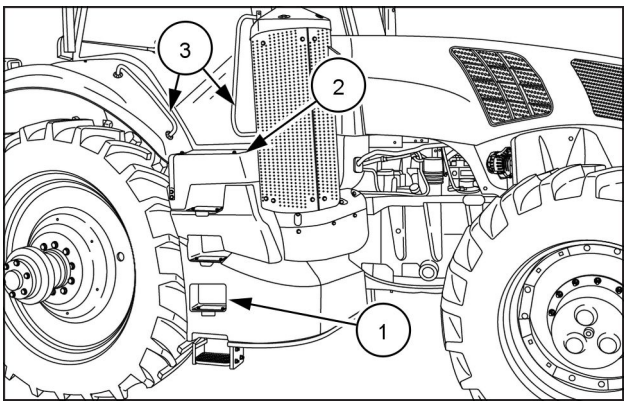
When mounting or dismounting the tractor, use the hand rails and steps provided.



RAIL14TR00588BA 2

Mounting/dismounting the tractor

Steps **(1)**, a platform **(2)** and hand rails **(3)** are also provided on the right hand side of the tractor.



RAIL14TR00634AA 3

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7 - MAINTENANCE

GENERAL INFORMATION

Safety rules

⚠ 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

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

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

W0157A

⚠ WARNING

Personal Protective Equipment (PPE) required.
When assembling, operating, or servicing the machine, wear protective clothing and PPE necessary for the particular procedure. Some PPE that may be necessary includes protective shoes, eye and/or face protection, hard hat, heavy gloves, filter mask, and hearing protection.
Failure to comply could result in death or serious injury.

W0353A

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8 - TROUBLESHOOTING

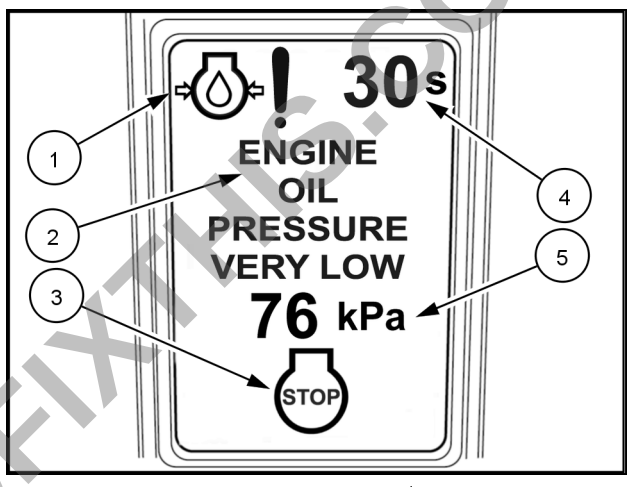
ALARM(S)

Display warnings overview

The lower display notifies the operator when there is a problem with the engine, transmission, hydraulics or other operational systems that require corrective action. The warnings include an audible alarm, one or more indicator lights and a text message in the lower display. The warnings are divided into 4 levels of importance and a descending order of priority within each level. In the case of multiple faults or warnings, the higher level or higher priority within a level will be the warning displayed.

With Level 1 warnings, the message screen contains:

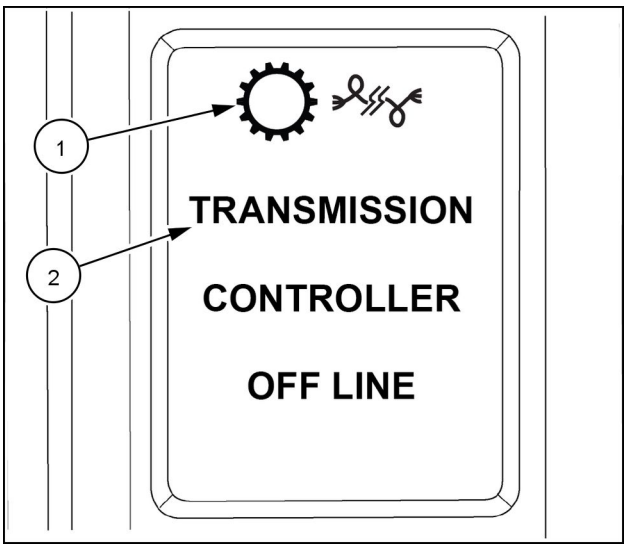
1. an icon for the affected system,
2. the warning message,
3. the engine shut down icon,
4. the 30 second count down timer which displays on performance instrumentation,
5. and the recorded temperature or pressure which is out of range.



RAIL13TR00965BA 1

With other warnings, the message screen contains:

1. an icon for the affected system,
2. and the warning message.



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9 - SPECIFICATIONS

Engine specifications

Diesel engine

Type	Six cylinder, four stroke cycle, turbocharged, 4 valve per cylinder head, air to air aftercooled
Firing Order	1-4-2-6-3-5
Bore	**117 mm**
Stroke	**135 mm**
Piston displacement	**8.7 l**
Compression ratio	15.9 :1
Cylinder sleeves	Wet type, removable
High engine idle	**2240 RPM ± 25 RPM**
Rated engine speed	**2000 RPM**
Low engine idle	**900 RPM ± 50 RPM**

Lubrication system

All models

Oil pressure	**300 - 500 kPa** (**43 - 75 psi**)
System type	Constant pressure with piston oil cooling

Fuel system

All models

Fuel injection pump	
Type	Electronic
Make	High Pressure Common Rail Bosch CP3.3
Fuel injectors	Bosch electronically controlled

Air intake system

All models

Type	Dry type, air induction system, two stage

Cooling system

All models

Type	Pressure system, thermostat controlled bypass, centrifugal type pump
Radiator	Aluminum furnace brazed
Thermostat	Starts to open at approximately **84 °C** (**183 °F**) ± **2 °C** (**3.6 °F**) fully open at **94 °C** (**201.2 °F**) ± **2 °C** (**3.6 °F**)
Pressure cap, deaeration tank	**120 kPa** (**17.4 psi**)
Fan drive type	Viscous

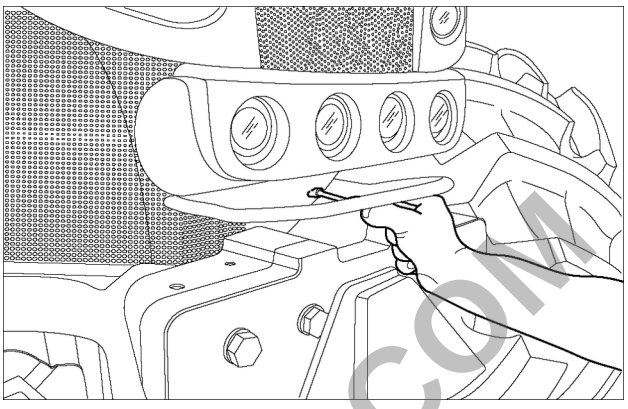
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Opening the hood

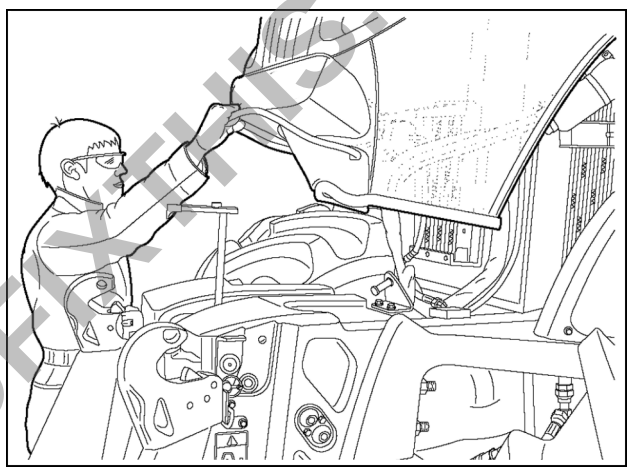
1. Push a screwdriver or metal rod in the hood opening below **(1)** the handle to release the hood latch.

   NOTE: *Any metal tool like a screwdriver or rod can be used to release the hood latch.*



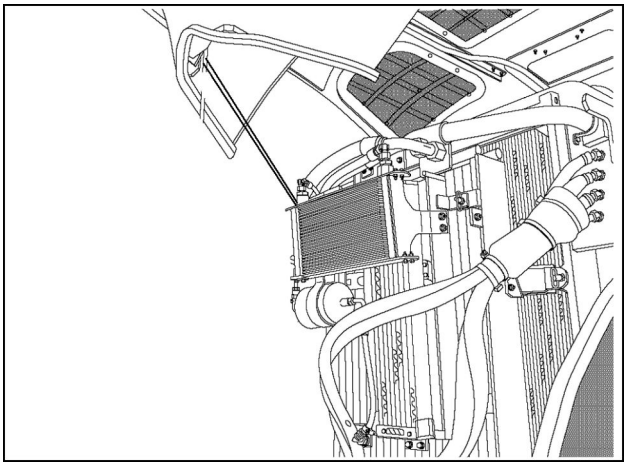
RCPH11CCH025AAA 1

2. Lift the handle slightly on the hood.



RCPH11CCH074BAB 2

3. Lift cylinders will raise hood to the partially raised position. Keep hands and fingers clear of the hood during hood raising.



RCPH11CCH073BAB 3

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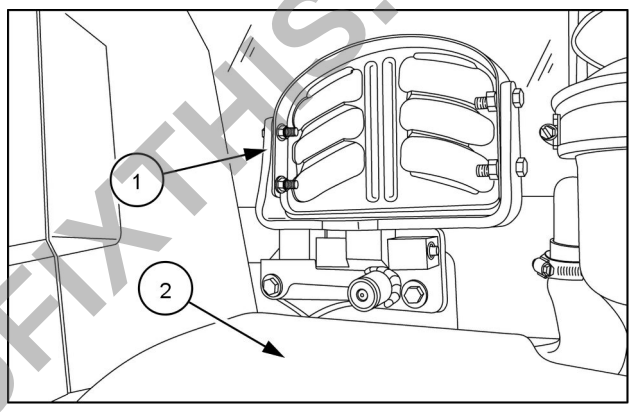
At warning message display

Air filter service icon/message*

NOTICE: *The primary air filter can be cleaned (with compressed air) a maximum of three times between filter changes. The secondary filter cannot be cleaned. Do not remove the secondary filter unless it is being replaced.*

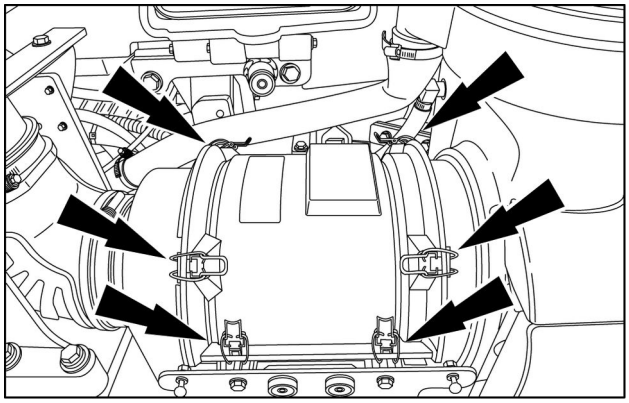
NOTICE: *Do not wash either filter.*

1. If this warning icon  and message “ENGINE AIR FILTER” appears on the display, the primary air filter element needs servicing. If the warning comes on during the work day, you can service the element after the day’s work is done.
2. Pull the windshield step **(1)** forward to release the magnetic latch, and raise the step.
3. Pull the filter cover **(2)** forward to release the magnetic latch, and raise the cover for the filter compartment to remove it.



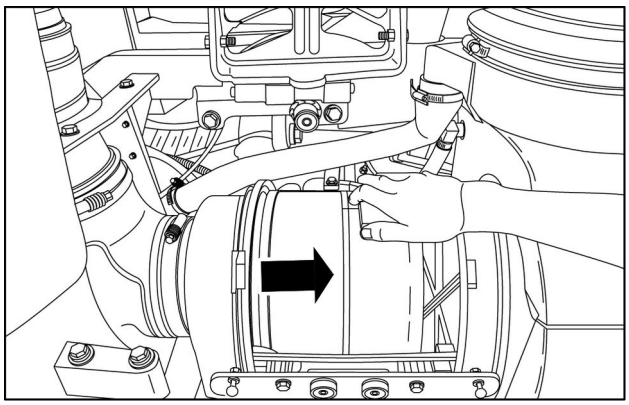
RAIL14TR00357AA 1

4. Disengage the six fasteners on the filter cover, and remove the cover.



RAIL14TR00611AA 2

5. Pull the primary filter away from its housing, and raise the filter to remove it.



RAIL14TR00612AA 3

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First 100 hours

Powershift transmission clutch calibration

NOTICE: *If you encounter an error message during calibration, consult the table at the end of this procedure. If you cannot resolve the problem using the table, contact your NEW HOLLAND dealer for assistance.*

⚠ WARNING

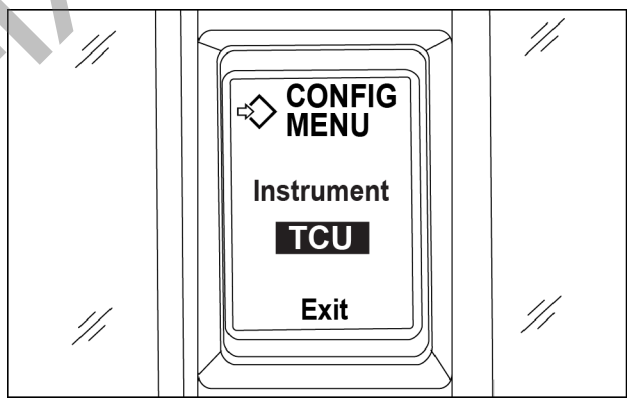
Unexpected machine movement!
The machine could move automatically during calibration. Park on a flat surface, engage the parking brake, and be sure that the area around the machine is clear before starting the calibration process.
Failure to comply could result in death or serious injury.

W0300A

Before calibrating the transmission,

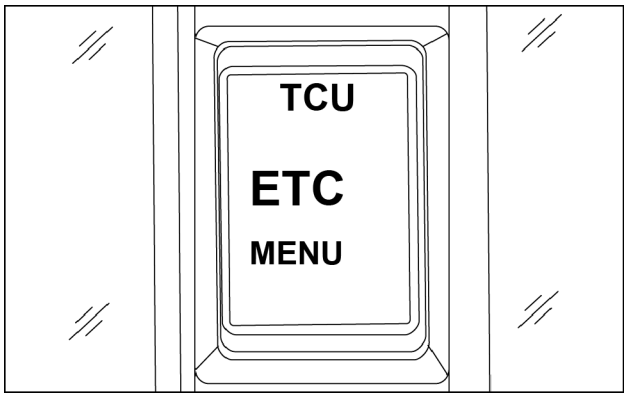
- The vehicle must be in an open area, free of obstacles and away from other people and pets
- Transmission oil temperature must be warmed to more than **60 °C** (**140 °F**).

1. Press and hold the Enter key on the key pad within ten seconds of moving the key switch to the on position. The CONFIG MENU displays.



RCPH11CCH066BAA 1

2. Press the down arrow key to highlight TCU in the menu list.
3. Press the Enter key to enter the TCU menus.
4. Press the down arrow key until the ETC MENU screen displays.
5. Press the Enter key to enter the transmission sub menus. The TRANS VIEW screen displays.



RCPH11CCH278BAA 2

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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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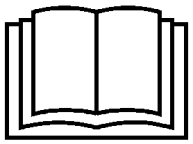
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Safety signs

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

Keep safety signs clean and legible. Cleans safety 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 safety signs.

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



Safety signs that display the “Read Operator’s Manual” symbol are intended to direct the operator to the operator’s manual for further information regarding maintenance, adjustments, or procedures for particular areas of the machine. When a safety sign displays this symbol, refer to the appropriate page of the operator’s manual.

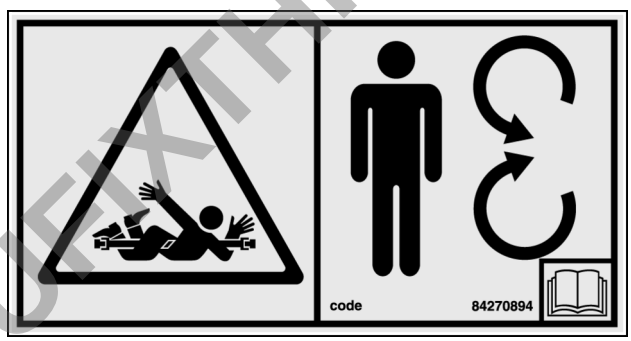
PTO shield decal – entanglement hazard

Warning

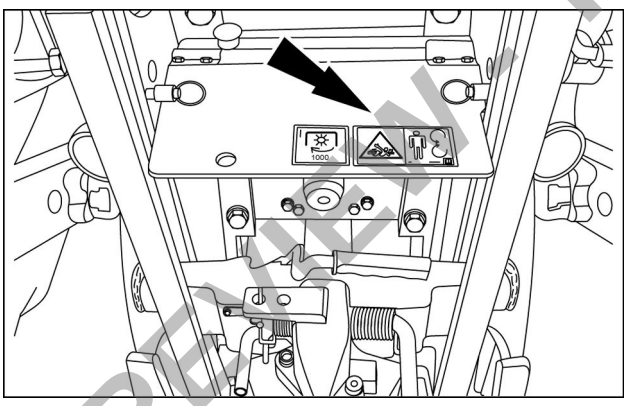
- Always keep driveline shields in place to avoid entanglement.
- Be sure implements are matched to tractor PTO speeds.
- Center and lock the drawbar when using PTO.

To prevent bottoming or separation of implement driveline, position drawbar according to implement manufacture’s recommendation

Failure to comply could result in death or serious injury.



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The decal is located on top of the driveline shield.

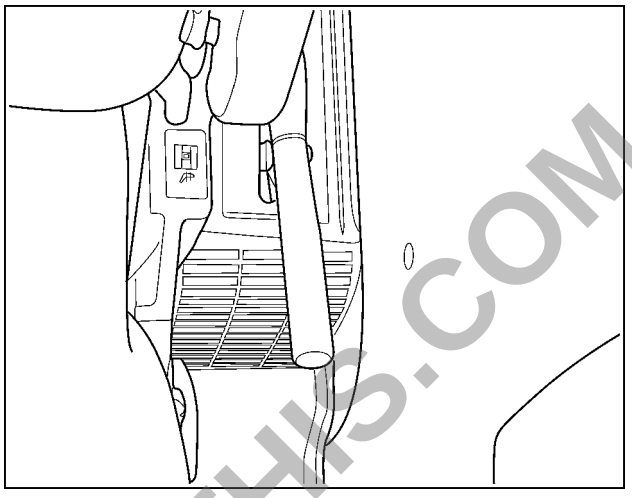
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LEFT-HAND SIDE CONTROLS

Emergency brake lever

The emergency brake operates as an “auxiliary brake” in the event of a service brake failure. The brake is located on the left hand side of the operator’s seat.

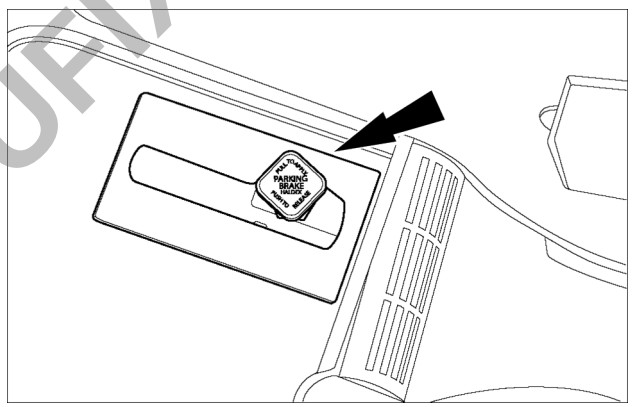


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Pneumatic trailer brake

The cab control for the pneumatic trailer brakes is located slightly behind the operator’s seat on the left hand side of the cab.

Lift the control knob to engage the trailer brakes. Lower the control knob to release the trailer brakes.



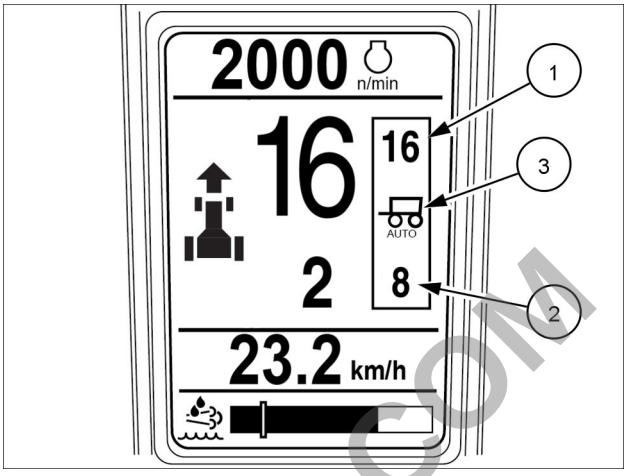
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Ground Speed Management (GSM) display:

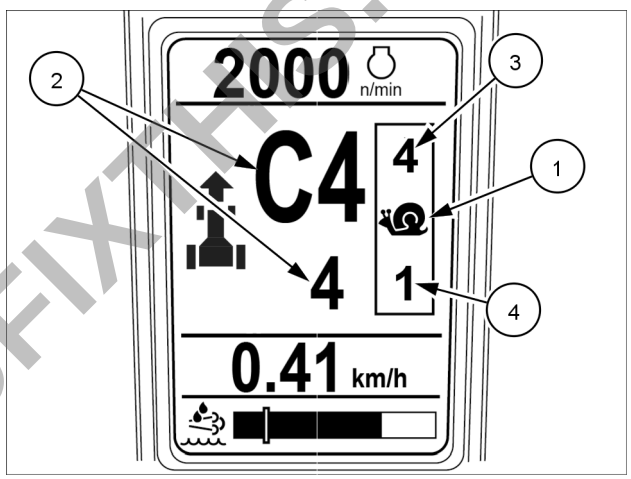
1. When a transmission auto function is engaged, the gear availability indicators are replaced by the upper **(1)** and lower **(2)** auto function gears.
2. When GSM road is engaged, a trailer symbol **(3)** displays. When GSM field is engaged, a plow symbol displays.



RCPH11CCH019BAA 4

Creeper gears:

1. The creeper transmission icon **(1)** displays when the creeper gears are engaged.
2. The selected forward gear and reverse gear **(2)** reflect the creeper gear range.
3. When the creepers gears are engaged, the gear availability indicators are replaced by the upper **(3)** and lower **(4)** creeper gears in the range.



RCPH11CCH038BAA 5

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MOVING THE UNIT

FULL POWERSHIFT TRANSMISSION

Powershift transmission

⚠ WARNING

Loss of control hazard!
Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
Failure to comply could result in death or serious injury.

W0233A

⚠ WARNING

Loss of control hazard!
Do not exceed implement transport speed or the speed rating for the implement tires. Read the implement operator's manual for specifications.
Failure to comply could result in death or serious injury.

W0305A

Your tractor is equipped with a full power shift transmission. The full power shift design permits shifting the transmission without using the inching pedal, except the first time the transmission is engaged on startup and when the operator leaves the seat for more than 2 seconds. This includes changing gears when the tractor is moving, stationary or changing the direction of travel.

Your tractor may be equipped with one of the following options:

50 km/h (**30 mph**) transmission

- 19 forward and 4 reverse gears

40 km/h (**25 mph**) standard transmission

- 18 forward and 4 reverse gears

40 km/h (**25 mph**) economy transmission

- 19 forward and 4 reverse gears

40 km/h (**25 mph**) creeper transmission

- 23 forward and 6 reverse gears
- includes creeper range

Transmission controller software prevents the power shift transmission from shifting up beyond a certain gear depending on transmission oil temperature. This is done to eliminate the possibility of excessive clutch wear by shifting into higher gears at lower temperatures. The limits are as follows:

Oil temperature less than or equal to	Limits power shift to
-40 °C (**-40 °F**)	10th Gear
-10 °C (**14 °F**)	11th Gear
-5 °C (**23 °F**)	12th Gear
0 °C (**32 °F**)	13th Gear
2 °C (**35.6 °F**)	14th Gear
4 °C (**39.2 °F**)	15th Gear
6 °C (**42.8 °F**)	16th Gear
8 °C (**46.4 °F**)	17th Gear
10 °C (**50.0 °F**)	18th Gear
12 °C (**54.0 °F**)	19th Gear

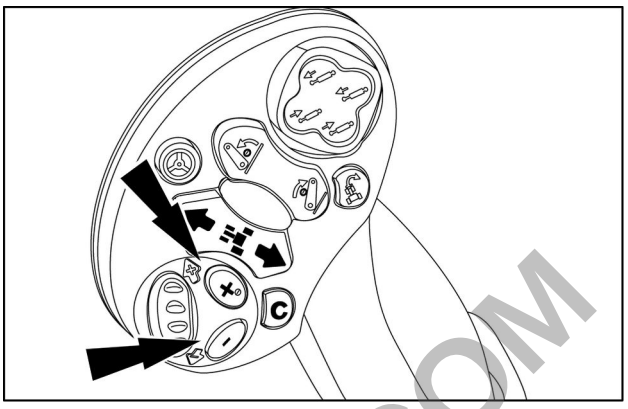
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Use the speed range buttons on the multi function handle to change the speed range while traveling. There are three operator selectable speed ranges.

Press and release the faster button to select the next higher speed range for the transmission.

Press the slower button to select the next lower speed range for the transmission.

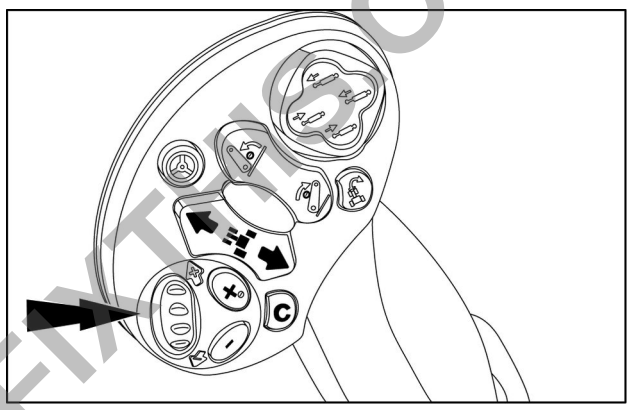


RAIL12TR02887AA 6

Use the thumbwheel with the speed range buttons while driving to change the maximum speed for the current speed range.

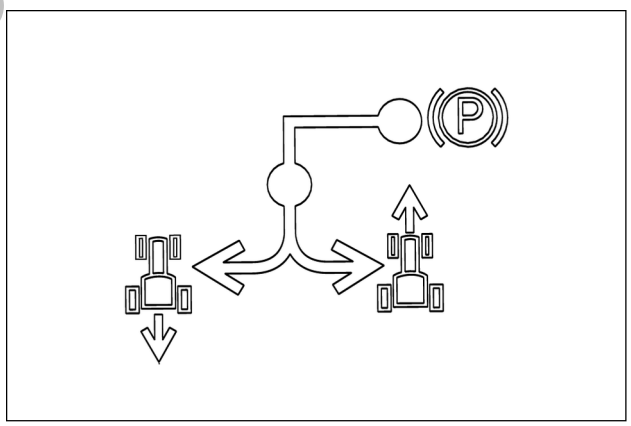
Rotate the thumbwheel toward the plus (+) arrow to set a higher maximum speed for the selected speed range.

Rotate the thumbwheel toward the minus (-) arrow to select a slower maximum speed for the selected speed range.

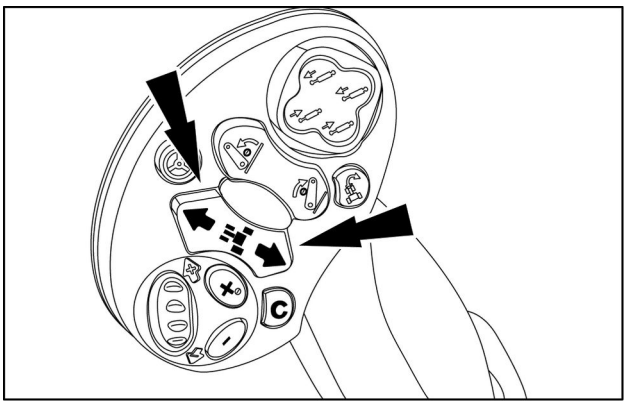


RAIL12TR02887AA 7

To reverse the direction of travel with the shuttle controls, pull the shuttle lever toward the steering wheel and then move it to the left. Alternatively, the shuttle buttons on the multi function handle can be used to change direction.



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RAIL12TR02887AA 9

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SHIPPING TRANSPORT

Securing the tractor for shipping

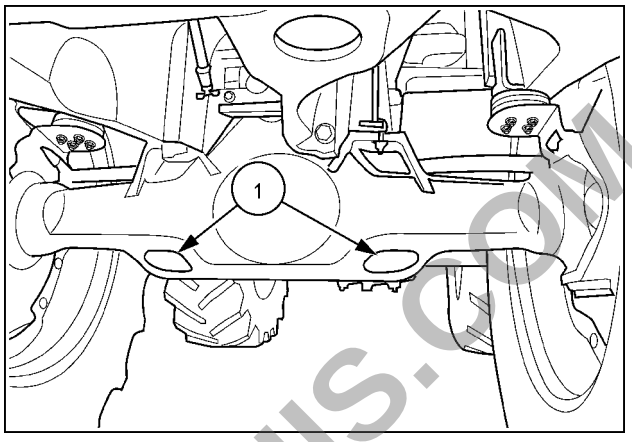
When transporting the tractor by truck or rail, follow these rules:

- Tie the tractor down with safety chains around the front **(1)** and rear **(2)** axle tie down loops. The rear tie down loop is located on the rear drawbar support on each side of the tractor.
- Put the transmission control in park.

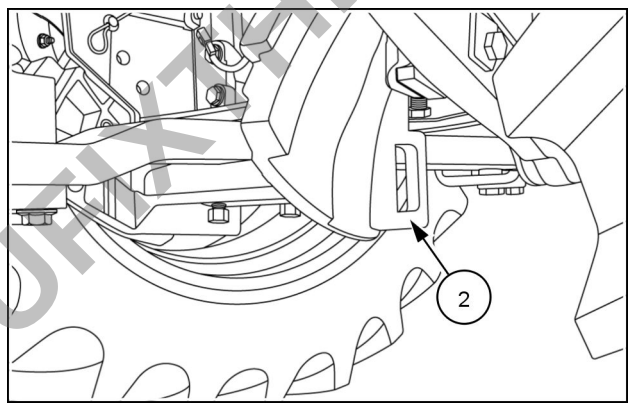
NOTICE: *Make sure the transmission control in park before releasing the tractor tie downs.*

NOTICE: *Check the overall height of the tractor before transporting to make sure overhead height clearance requirements are present.*

NOTICE: *The front axle tie-down loops are only for securing the vehicle when the tractor is shipped or trucked. Do not use the tie down loops to pull the tractor if it is stuck or to tow the tractor.*



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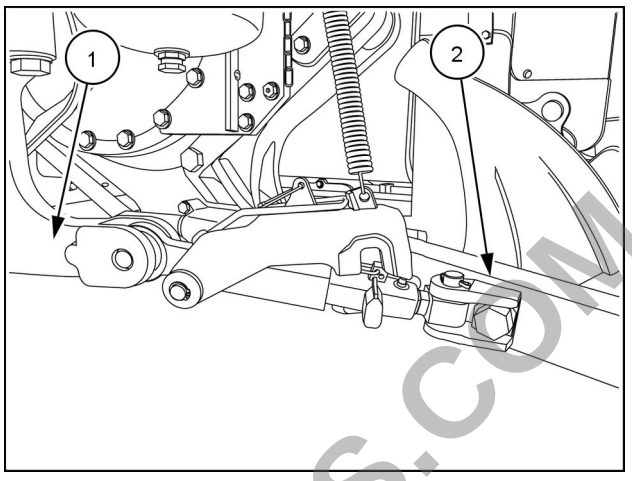
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Automatic telescoping stabilizers

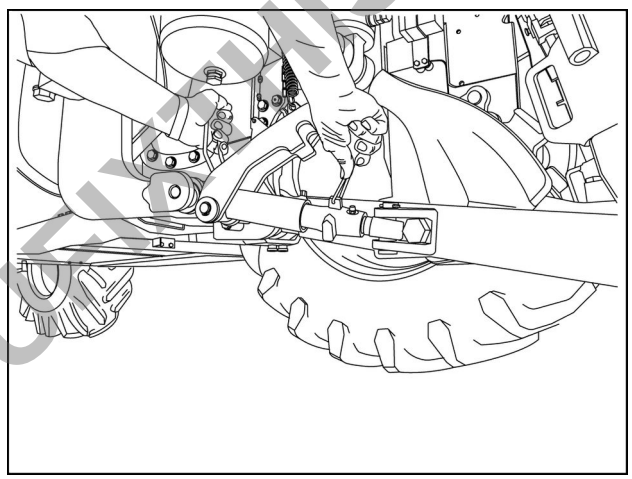
Automatic telescopic stabilizers may be installed in place of the standard cam limiters.

Each stabilizer consists of a telescoping tube assembly threaded at the rear end. The assembly is connected between the rear axle housing **(1)** and the lower link arm **(2)** on both sides of the rear hitch.



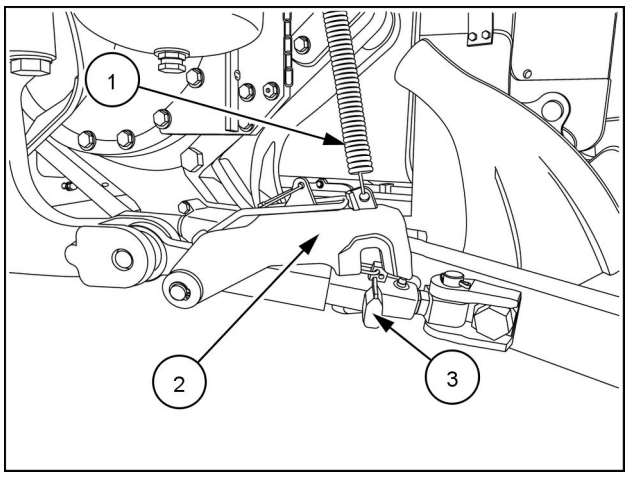
RAIL12TR01382AA 1

The tie rod is threaded into the stabilizer. Adjust the distance between the lower link arms by turning the tie rod in or out as required.



RAIL12TR01389AA 2

A chain **(1)** is connected between the hinged cover **(2)** on the stabilizer and a hook near the top of the hitch cylinder. Adjusting the length of the chain determines when the cover engages the lug **(3)** on the stabilizer as the lower link arms are raised and lowered.



RAIL12TR01382AA 3

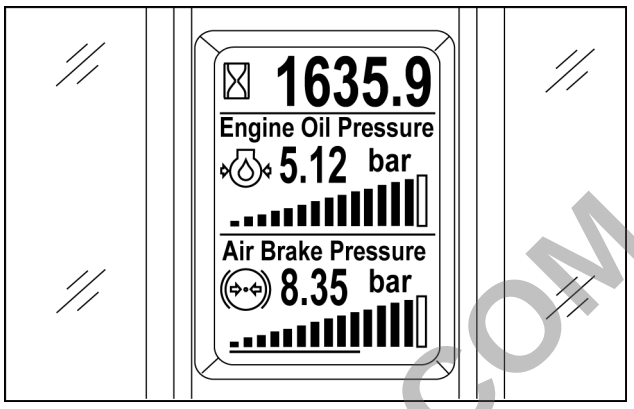
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Air pressure monitoring

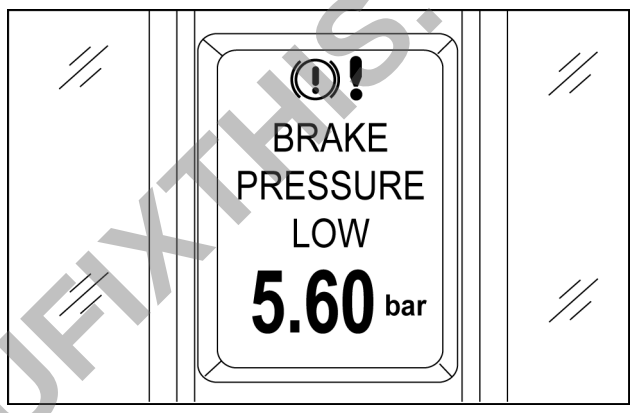
Use the air brake pressure screen on the lower display to monitor the current pressure in the pneumatic trailer brake system. The screen displays pressure in pounds per square inch or bar depending on the unit of measurement selected as well as in bar graph form.

NOTE: *If the screens does not display when the brake pressure switch is present, a setting must be changed on the Instrument Control Unit (ICU). Contact your dealer to update the configuration for the sensor.*

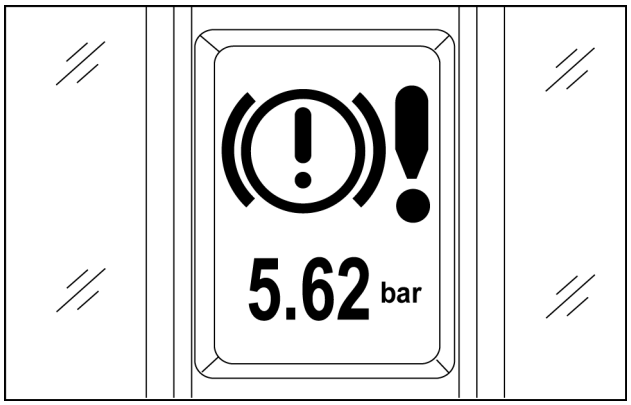


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When brake pressure falls below an acceptable level, a brake pressure low warning message displays on the lower display. Check the system for leaks and check if the compressor located at the rear of the engine is operating. Contact your dealer if service is required.



RAIL14TR02679AA 2

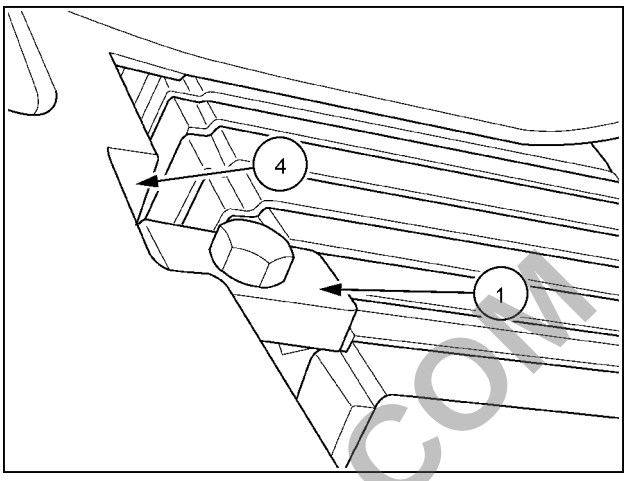


RAIL14TR02680AA 3

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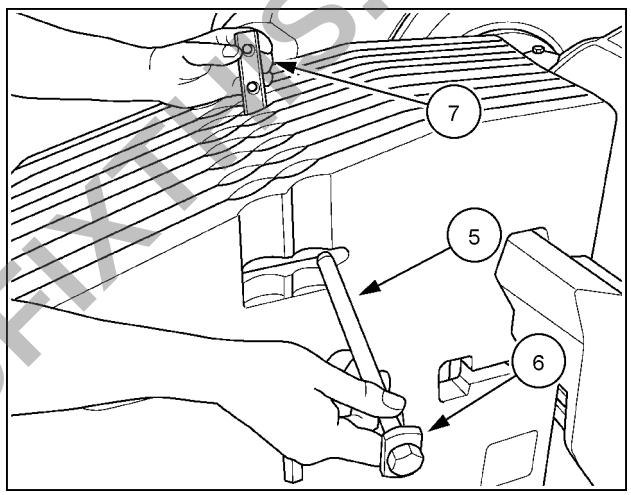
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4. Secure the rear end plate **(1)**, with the bolt **(2)** and special nut plate **(3)**.
5. Continue adding weights until you have reached the quantity of 10 or 16 in the **100 kg** (**220 lb**) weight packages, or 12 or 22 weights in the **40 kg** (**88 lb**) weight packages.



RCPH08CCH494AAC 5

6. Slide the side securing bolt **(5)** through the side end plate and thread into special nut plate **(7)**.
7. For all weight packages, insert a bolt **(5)** from each side and use a special nut plate **(7)** for each bolt. Repeat for the bottom of the weight assembly, reversing bolt position from those mounted on the top.



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Rear wheel tread settings — singles (2.75 m overall width)

Rear axle size	Rear tire width	Wheel turned in Minimum/maximum tread Width	Wheel turned out Minimum/maximum tread width
102 mm Dia x **2490 mm** (**4.0 in** Dia x **98 in**)	620	**1753 - 2057 mm** (**69 - 81 in**)	N/A
	650 / IF650	**1753 - 2057 mm** (**69 - 81 in**)	N/A
	710 / IF710	**1829 - 2032 mm** (**72 - 80 in**)	N/A
	800	**1905 - 1930 mm** (**75 - 76 in**)	N/A
	900 / IF900	N/A	N/A
115 mm Dia x **2490 mm** (**4.5 in** Dia x **98 in**)	620	**1753 - 2057 mm** (**69 - 81 in**)	N/A
	650 / IF650	**1753 - 2057 mm** (**69 - 81 in**)	N/A
	710 / IF710	**1829 - 2032 mm** (**72 - 80 in**)	N/A
	800	**1905 - 1930 mm** (**75 - 76 in**)	N/A
	900 / IF900	N/A	N/A
127 mm Dia x **2490 mm** (**5.0 in** Dia x **98 in**)	620	**1753 - 1956 mm** (**69 - 77 in**)	N/A
	650 / IF650	**1753 - 1956 mm** (**69 - 77 in**)	N/A
	710 / IF710	**1829 - 1956 mm** (**72 - 77 in**)	N/A
	800	**1905 - 1930 mm** (**75 - 76 in**)	N/A
	900 / IF900	N/A	N/A

N/A = not achievable

NOTICE: *Maximum rear axle operating weight must be reduced if the maximum tread width used in its calculation is exceeded. Do not exceed maximum axle or tractor operating weight.*

Rear wheel tread settings — singles (3.0 m overall width)

Rear axle size	Rear tire width	Wheel turned in Minimum/maximum tread Width	Wheel turned out Minimum/maximum tread width
102 mm Dia x **2490 mm** (**4.0 in** Dia x **98 in**)	620	**1753 - 2057 mm** (**69 - 81 in**)	**2235 - 2362 mm** (**88 - 93 in**)
	650 / IF650	**1753 - 2057 mm** (**69 - 81 in**)	**2235 - 2337 mm** (**88 - 92 in**)
	710 / IF710	**1829 - 2057 mm** (**72 - 81 in**)	**2235 - 2286 mm** (**88 - 90 in**)
	800	**1905 - 2134 mm** (**75 - 84 in**)	**2108 - 2184 mm** (**83 - 86 in**)
	900 / IF900	**2057 - 2083 mm** (**81 - 82 in**)	N/A
115 mm Dia x **2490 mm** (**4.5 in** Dia x **98 in**)	620	**1753 - 2057 mm** (**69 - 81 in**)	**2235 - 2362 mm** (**88 - 93 in**)
	650 / IF650	**1753 - 2057 mm** (**69 - 81 in**)	**2235 - 2337 mm** (**88 - 92 in**)
	710 / IF710	**1829 - 2057 mm** (**72 - 81 in**)	**2235 - 2286 mm** (**88 - 90 in**)
	800	**1905 - 2134 mm** (**75 - 84 in**)	**2108 - 2184 mm** (**83 - 86 in**)
	900 / IF900	**2057 - 2083 mm** (**81 - 82 in**)	N/A
127 mm Dia x **2490 mm** (**5.0 in** Dia x **98 in**)	620	**1753 - 1956 mm** (**69 - 77 in**)	**2261 - 2362 mm** (**89 - 93 in**)
	650 / IF650	**1753 - 1956 mm** (**69 - 77 in**)	**2261 - 2337 mm** (**89 - 92 in**)
	710 / IF710	**1829 - 1956 mm** (**72 - 77 in**)	**2261 - 2286 mm** (**89 - 90 in**)
	800	**1905 - 2032 mm** (**75 - 80 in**)	**2108 - 2184 mm** (**83 - 86 in**)
	900 / IF900	**2057 - 2083 mm** (**81 - 82 in**)	N/A

N/A = not achievable

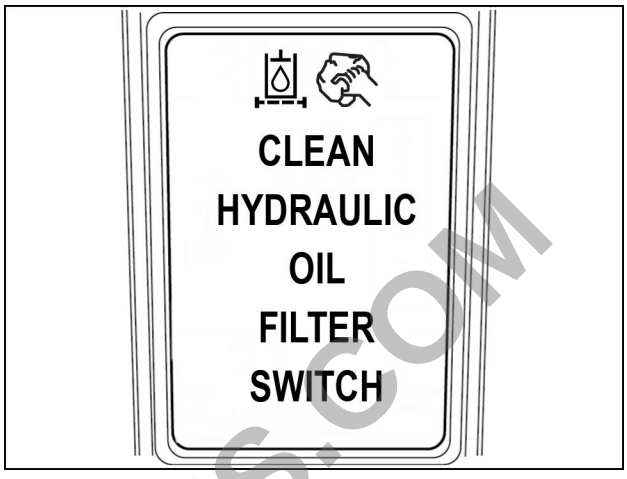
NOTICE: *Maximum rear axle operating weight must be reduced if the maximum tread width used in its calculation is exceeded. Do not exceed maximum axle or tractor operating weight.*

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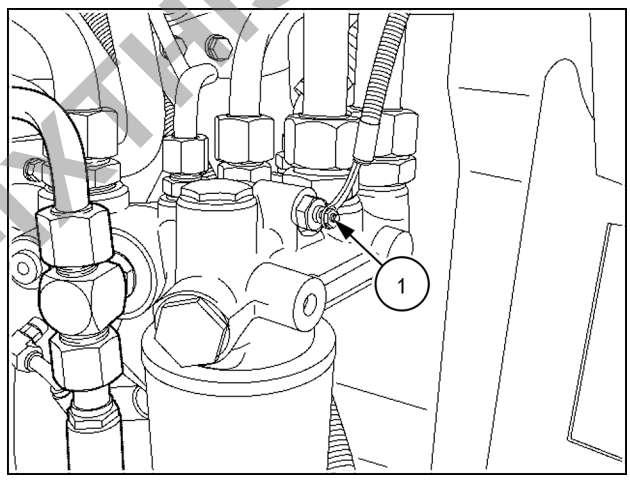
Transmission oil filter switch

1. If the warning icon and message “CLEAN HYDRAULIC OIL FILTER SWITCH” appears on the display, the hydraulic oil filter switch needs servicing. If the warning comes on during the work day, you can service the switch after the day’s work is done.

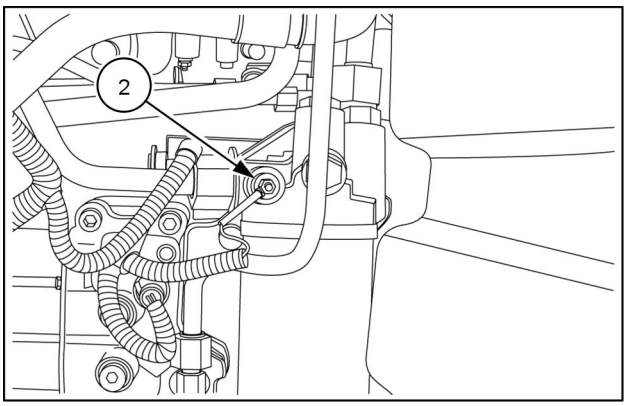


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The location of the switch varies somewhat between a Powershift transmission **(1)** and an Auto Command transmission **(2)**, but the switch procedure is common.



RCPH11CCH059BAB 2



RAIL12TR03285AA 3

NOTE: *Fuel tank removed for photograph clarity.*

2. Place the tractor on a hard level surface, place the transmission in park, shut off the engine and remove the key.

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Engine coolant antifreeze protection

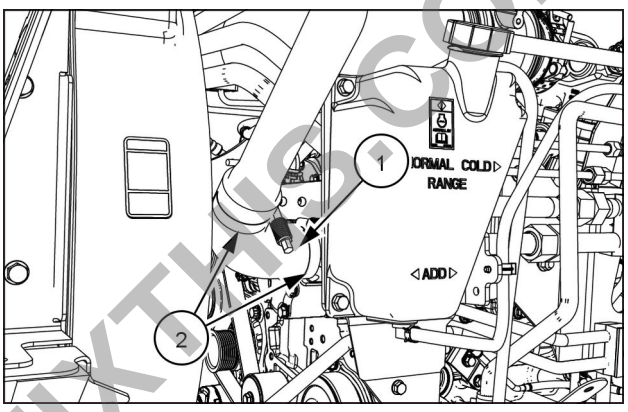
Check the antifreeze protection level of the coolant system; it must exceed anticipated ambient operating temperatures.

Engine coolant hoses and clamps

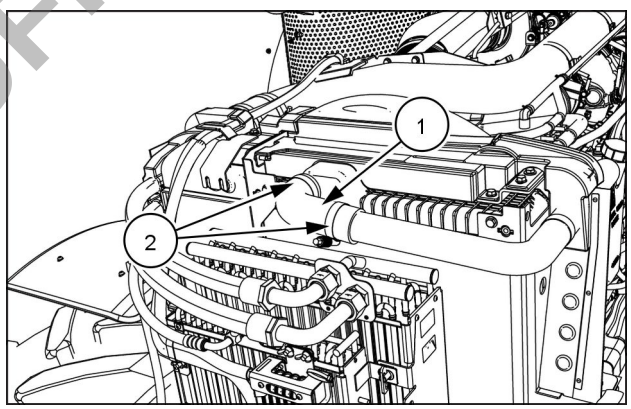
NOTICE: *Replace hoses if cracked or damaged. Replace clamps if broken or damaged.*

NOTICE: *Do not over tighten clamps.*

1. Check the coolant line between the engine outlet and the radiator inlet, the hoses **(1)** and clamps **(2)**.

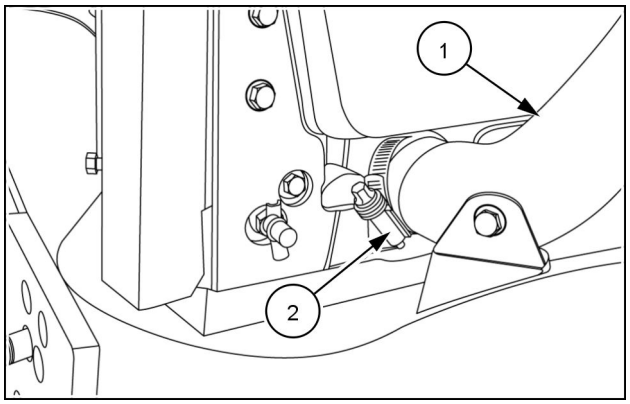


RAIL14TR00729AA 1



RAIL14TR00732AA 2

2. Check the coolant line between the radiator outlet and the engine inlet, the hoses **(1)** and clamps **(2)**.



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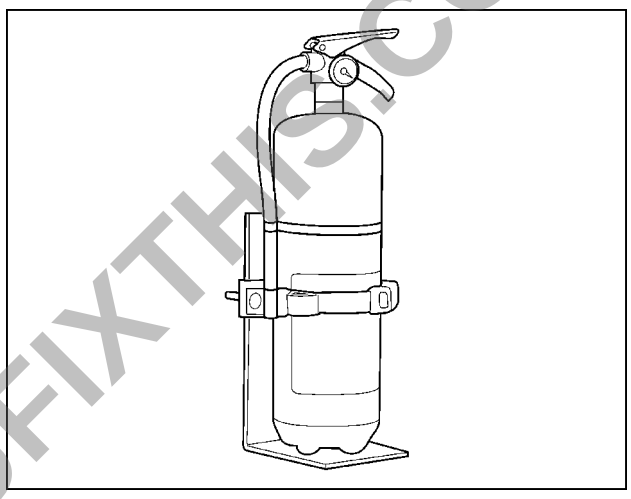
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As required

Vehicle fire prevention

1. Fire risk can be minimized by keeping the machine clean.
   - Remove all crop material, trash or debris from the machine
   - The operator is responsible for removing and/or cleaning the machine of such debris.
   - Promptly repair leaks and clean up fuel and oil spills.
2. Equipping the tractor with a fire extinguisher is a good practice.



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3. Sparks or flames can cause the hydrogen gas in a battery to explode. To prevent an explosion, do the following:
   - When disconnecting the battery cables, disconnect the negative/ground (-) cable first.
   - When connecting the battery cables, connect the negative/ground (-) cables last.
   - When connecting jumper cables to start the engine, use the procedure in this manual (See page **7-150** in the electrical section).
   - Do not short circuit the battery posts with metal items.
   - Do not weld, grind or smoke near a battery.
4. Check the electrical system for loose connections or frayed insulation. Repair or replace the loose or damaged parts.

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Problem	Possible cause	Correction
Engine overheats	Low engine oil level.	Add oil, as required.
	Low engine coolant level.	Fill coolant recovery tank. Check cooling system for leaks.
	Defective thermostat(s).	Check thermostat(s).
	Dirty/blocked radiator core.	Clean.
	Excessive engine overload.	Shift to lower gear, reduce draft load or ballast carried.
	Faulty radiator pressure cap.	Replace cap.
	Cooling system blocked.	Flush cooling system.
	Loose or worn fan belt.	Check tension, adjust or replace belt if worn.
	Leaking hose or connection.	Tighten connection and/or replace hose.
	Malfunctioning temperature gauge or sender.	See your authorized dealer.
	Malfunctioning viscous fan.	See your authorized dealer.
Low engine operating temperature	Malfunctioning thermostat(s).	Replace thermostat(s).
	Viscous fan locked up.	See your authorized dealer.
Low engine oil pressure	Low oil level.	Add oil, as required.
	Wrong oil grade or viscosity.	Drain and refill with oil of the correct specification.
Excessive engine oil consumption	Engine oil level too high.	Reduce oil level, as required.
	Wrong oil grade or viscosity.	Drain and refill with oil of the correct specification.
	Malfunctioning turbocharger.	See your authorized dealer.
	External oil leaks	Repair leaks.
	Worn valve guides/seals.	See your authorized dealer.
Excessive fuel consumption	Low engine operating temperature.	See low engine operating temperature.
	Malfunctioning turbocharger.	See your authorized dealer.
	Engine overloaded.	Shift to lower gear, reduce draft load or ballast carried.
	Air cleaner restricted.	Service air cleaner.
	Incorrect fuel.	Use correct type fuel.
	Malfunctioning fuel injector manifold.	See your authorized dealer.
	Malfunctioning fuel injection pump.	See your authorized dealer.
	Leaking air intake or exhaust.	Check and correct, or see your authorized dealer.
	Implement incorrectly adjusted.	See implement operator’s manual.

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