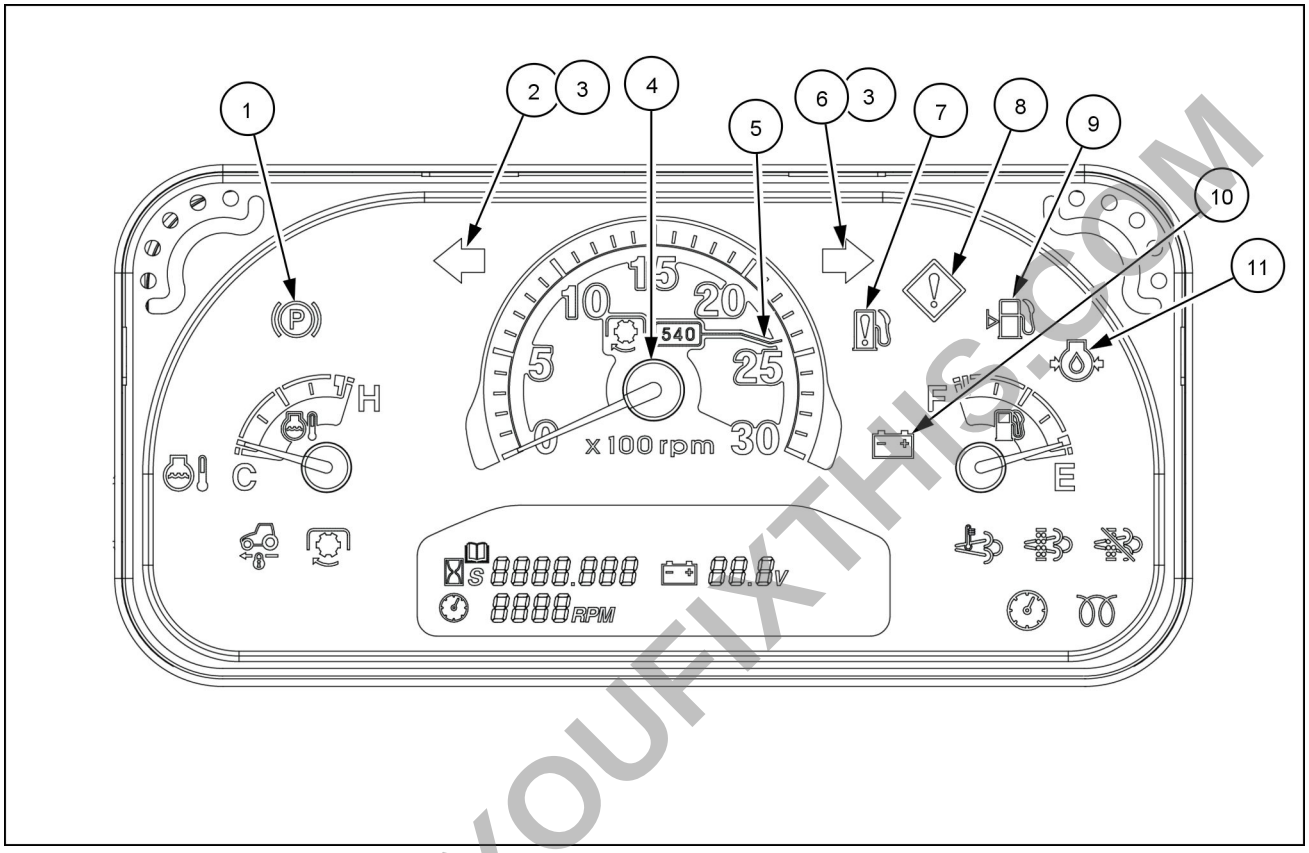
Forward controls

Instrument panel



NHIL17CT01128FA 1

1. Park Brake Indicator Light - Illuminates if the park brake is engaged with the key switch rotated from the "OFF" position.
2. Flasher Turn Lights - Operate when the multifunction switch lever is moved downwards for left turns the left arrow will flash. The key switch has to be in the "ON" or "START" positions.
3. Flasher Warning Lights - Operate when the operator places the multifunction switch in the hazard or road lights position, regardless of the key switch position. Use the flasher warning lights, road lights when traveling on public roads, day or night.
4. Tachometer - Registers engine Revolutions Per Minute (RPM). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
5. PTO Speed Indicator - Determined by the position of the needle on the tachometer. The tachometer is marked to indicate **540 RPM** of PTO. If the needle registers above the **540 RPM** mark, this indicates a dangerous over speed condition, reduce the engine (RPM) immediately.
6. Flasher Turn Lights - Operate when the multifunction switch lever is moved upwards for right turns the right arrow will flash. The key switch has to be in the "ON" or "START" positions.
7. Fuel Filter Warning Indictor Light - Illuminates when there is water in the fuel filter. When this indicator illuminates the engine will shut off automatically. Service of the fuel filter will be required.
8. Engine Warning Indicator Light - Will illuminate when there is a fault detected in the engine control system. This indicator light will be illuminate, either continuously or blinking, depending on engine fault. See **3-11** for a detailed explanation of engine warning indictor light operation.
9. Low fuel level warning indicator - When the fuel in the fuel tank is under minimum level, this indicator shall be ON.

   NOTICE: *If this indicator turns on, fill the fuel tank immediately with fuel.*

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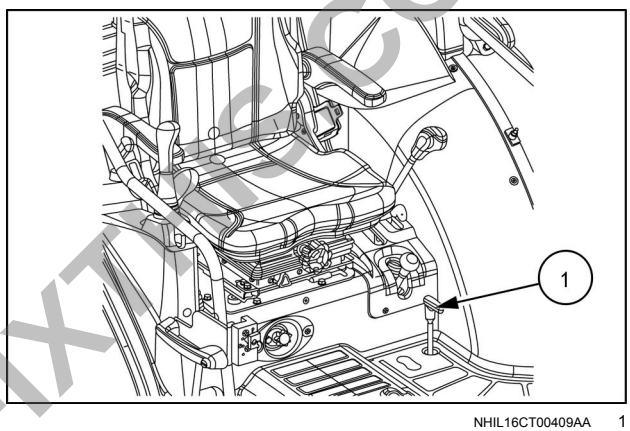
Front Wheel Drive (FWD) lever - Cab

The handle controls the front-wheel drive (FWD). The handle is located on the left-hand side of operator's platform.

NOTE: *Use front-wheel drive when additional traction is required while operating on loose soil, in wet, slippery conditions, or on slopes. For normal operation on firm soil, level hard surfaces, or when operating the unit at high speeds, disengage the front-wheel drive to maximize tire and driveline life and to economize on fuel.*

Mechanical transmission model

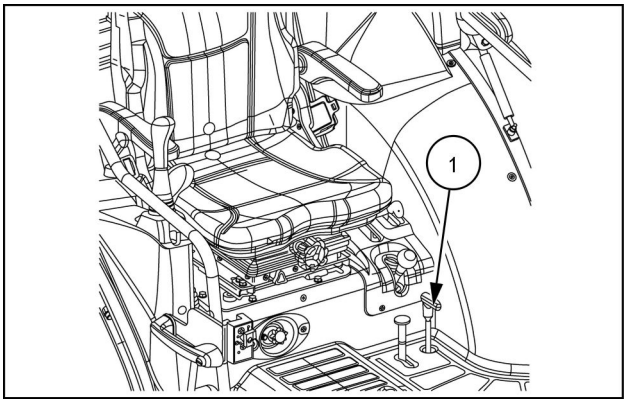
To engage the front-wheel drive on mechanical transmission model tractors, stop the tractor completely, depress the clutch pedal, and push the handle **(1)** completely downwards. To disengage the front-wheel drive, stop the tractor completely and pull the handle upwards.



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HST model

To engage the front-wheel drive on HST model tractors, stop the tractor completely and push the handle **(1)** completely downwards. To disengage the front-wheel drive, stop the tractor completely and pull the handle upwards.



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Hydraulic hose connection

⚠ WARNING

Crushing hazard!
Before disconnecting the cylinders or equipment, make sure you adequately support and secure the equipment or implement.
Failure to comply could result in death or serious injury.

W0243A

⚠ WARNING

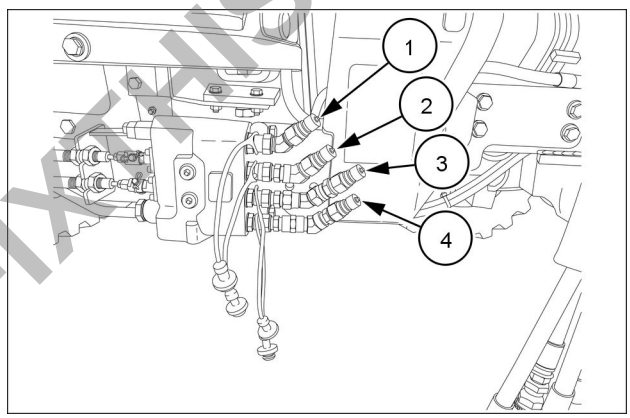
Escaping fluid!
Remote couplers must be properly mounted and securely fastened to the machine mounting bracket for proper functioning of the safety disconnect feature.
Failure to comply could result in death or serious injury.

W0131A

When connecting hydraulic hoses, follow the instructions listed below.

- Loader down/retract cylinder, yellow coupler **(1)**.
- Loader up/extend cylinder, green coupler **(2)**.
- Bucket curl/retract cylinder, red coupler **(3)**.
- Bucket dump/extend cylinder, blue coupler **(4)**.

NOTE: *Figure **3** shows the dealer installed coupler kit with front end loader.*



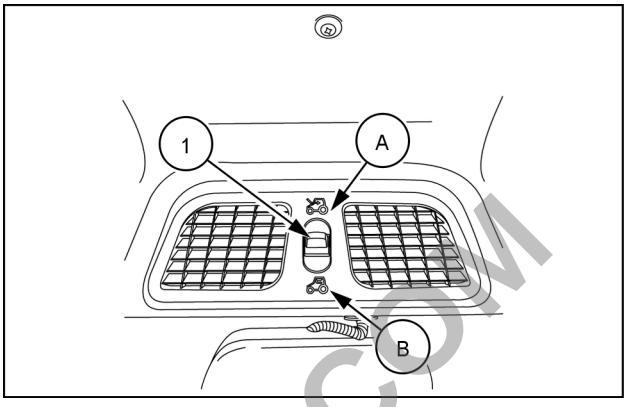
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Ventilation

Adjust the ventilation lever **(1)**to choose external or internal ventilation. Place the ventilation lever in the upper position **(A)** for external and position **(B)** for internal ventilation.



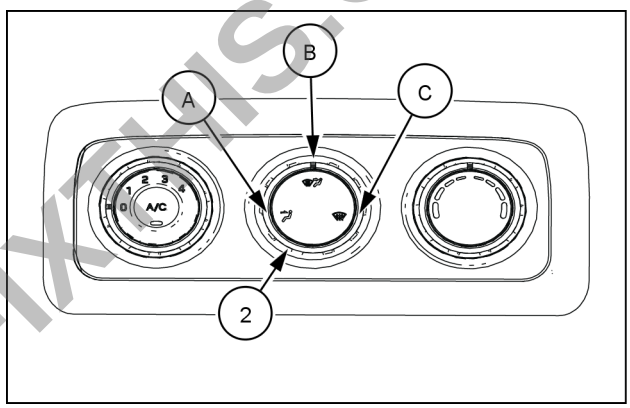
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Air direction

Adjust the air direction with the air direction control switch **(2)**.

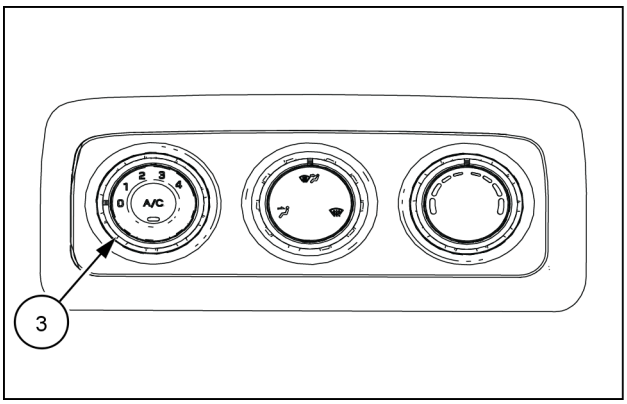
Air direction positions

1. Operator only
2. Front windshield and operator
3. Front windshield only

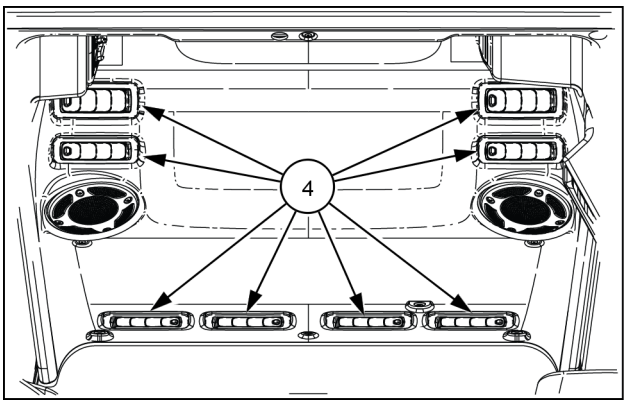


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Actuate ventilation with the fan switch **(3)** and direct the airflow by adjusting front and rear swivel vents **(4)**.



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Power Take Off (PTO) operation - Cab

Rear PTO

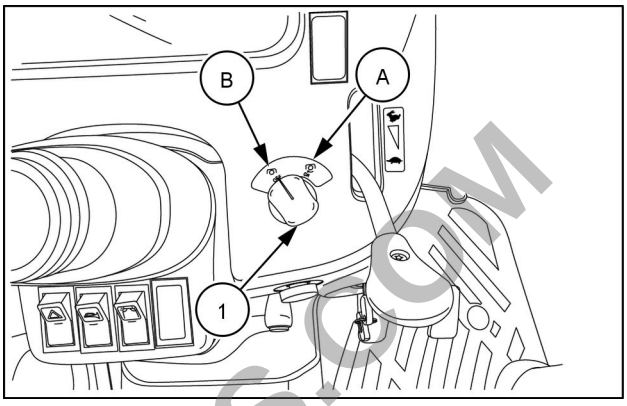
To engage the rear PTO:

1. Push the PTO switch **(1)** down and turn the switch to the "ON" position **(A)**.

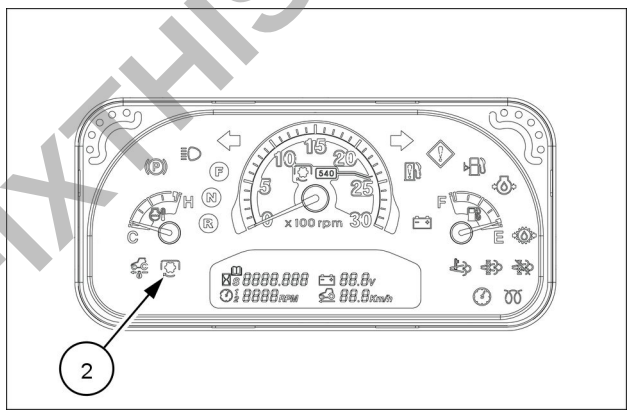
   NOTE: *When the PTO switch is in the engaged "ON" position, the PTO indicator light* ***(2)*** *illuminates on the instrument panel.*

2. The PTO system is independent of the tractor ground speed, and the operator can perform the following operations:

- The tractor ground travel can stop without stopping the PTO.
- Stop the PTO by disengaging the PTO clutch without stopping the tractor ground travel.



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To disengage the rear PTO:

1. Push down on the PTO switch **(1)** and the switch will automatically return to the "OFF" position **(B)**.

Mid PTO

To engage the mid PTO:

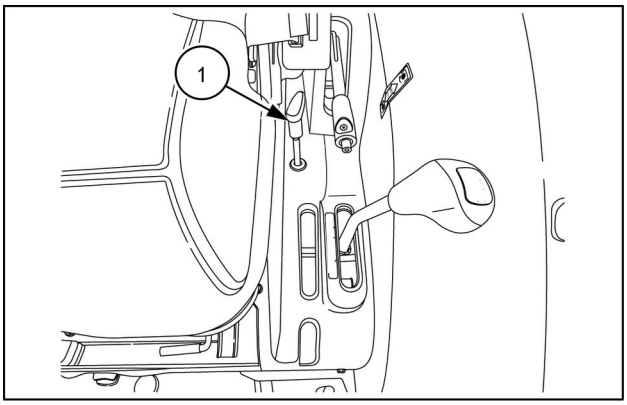
1. Pull up on the mid PTO lever **(1)**
2. Push down on the PTO switch **(2)** and turn the switch to the "ON" position **(A)**.

NOTE: *When the mid PTO is engaged the rear PTO will also be engaged. The mid PTO cannot be engaged separately.*

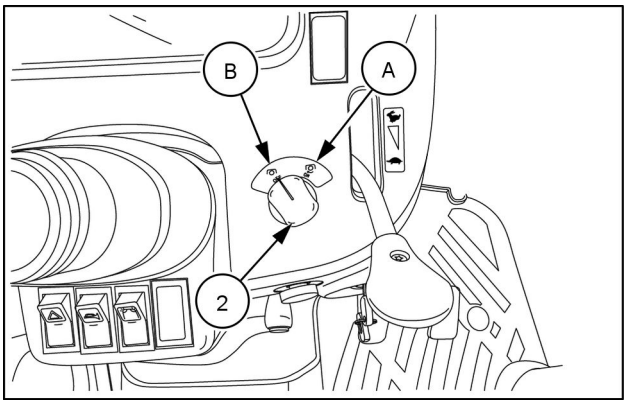
To disengage mid PTO:

1. Push down on the PTO switch **(2)** and the switch will automatically return to the "OFF" position **(B)**.
2. Push the mid PTO lever down to the "OFF" position **(1)**.

NOTE: *To start the engine the mid PTO lever must be in the down (disengaged) position and the PTO switch in the "OFF" position.*



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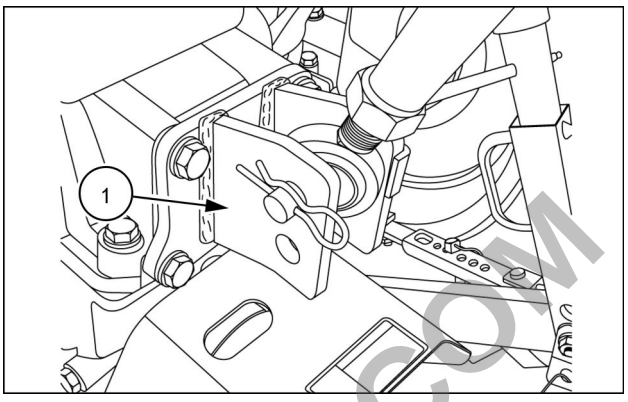
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Top link adjustment

The three point hitch top link attachment point **(1)** has two holes for attaching the upper link. Attach the link using the lower hole for light draft loads, such as mowers. Attach the link to the top hole for heavier draft loads, such as ground engaging equipment.



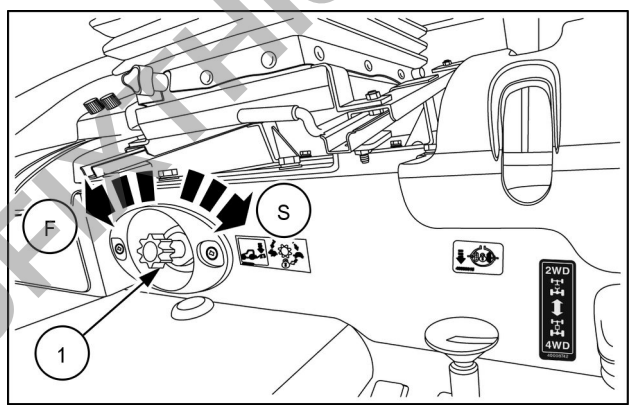
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Hydraulic Power Lift (HPL) drop rate control valve

The drop rate control valve **(1)** provides an adjustment to regulate the flow of oil from the lift cylinder. This allows the operator to slow or increase the rate of drop of the lower links.

Turn the drop rate control valve "IN" (clockwise) to decrease the rate of drop. Turn the valve "OUT" (counterclockwise) to increase the rate of drop.

The drop rate control valve must be opened before the hydraulic lift control will lower. If the valve is turned all the way "IN" (clockwise), the lower links raise to maximum height but cannot lower.



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(F) Fast
(S) Slow

NOTE: *Adjust the drop rate control valve needs accordingly to the amount of weight being carried on the rear hitch arms.*

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Starting the tractor with jumper cables

⚠ WARNING

Unexpected machine movement!
Always sit in the operator's seat to operate the machine. DO NOT bypass the key start switch. Sudden and unexpected machine movement or machine runaway could result.
Failure to comply could result in death or serious injury.

W0464A

⚠ WARNING

Explosive gas!
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.
Failure to comply could result in death or serious injury.

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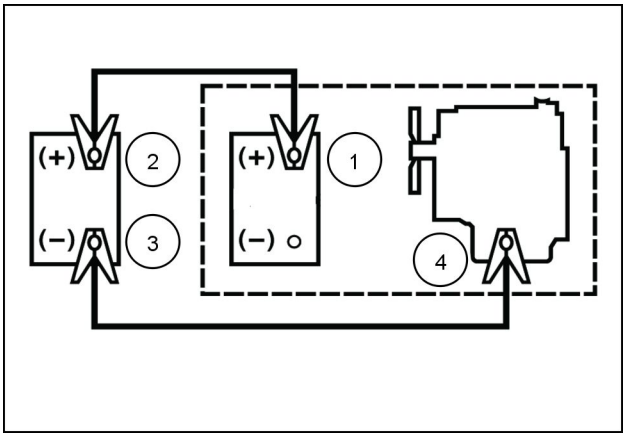
⚠ WARNING

Explosion hazard!
When jump-starting the machine, connect and disconnect the jumper cables exactly as indicated in this manual. DO NOT connect the jumper cables to the machine battery terminals. Make sure no persons are near the connecting points before starting the engine. Start the engine from the operator's seat.
Failure to comply could result in death or serious injury.

W0342A

If you must use jumper cables to start the tractor:

1. Shield your eyes.
2. Connect the red end of the jumper cable to the positive (+) battery terminal **(1)** on the tractor and connect the other red end to the positive (+) battery terminal **(2)** on the auxiliary battery.
3. Connect the black end of the jumper cable to the negative (-) battery terminal **(3)** on the auxiliary battery, then connect the other black end to a tractor frame ground or engine ground **(4)**. Finally, start the tractor by following the safe starting procedures outlined under See **4-25** or **4-28** .
4. When the engine starts allow the engine to idle, and turn on all electrical equipment (lights, etc.) This will help protect the alternator from possible damage due to changes in load when disconnecting the jumper cables.
5. Disconnect the jumper cables in reverse order, disconnect the black end from the tractor frame or engine ground **(4)** then disconnect the other black end from the negative (-) battery terminal **(3)** on the auxiliary battery.
6. Disconnect the red end from the positive (+) battery terminal **(2)** on the auxiliary battery.
7. Remove the other red end from the positive (+) battery terminal **(1)** on the tractor battery.



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Cruise control operation

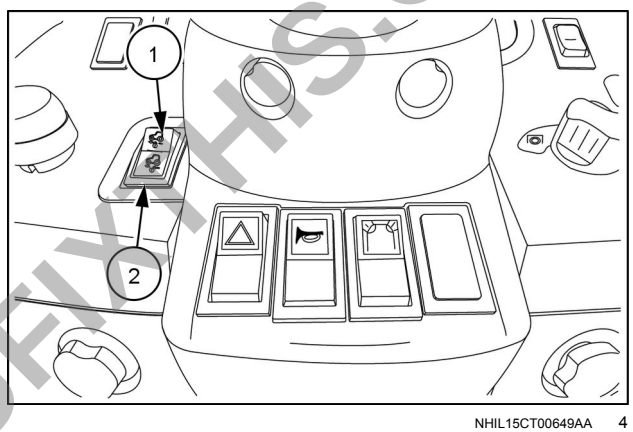
⚠ WARNING

Loss of control hazard!
To maintain optimum control of the machine, do not use the cruise control at high speeds or when roading.
Failure to comply could result in death or serious injury.

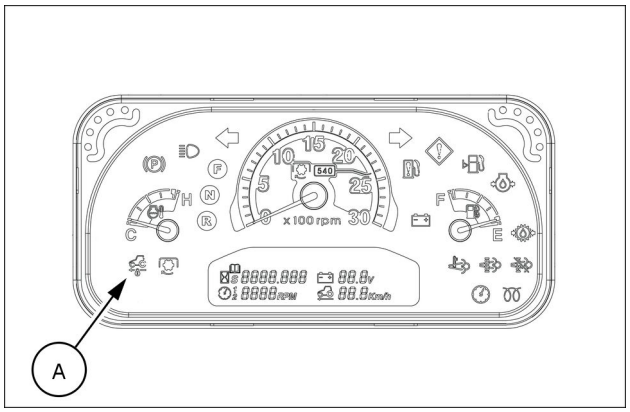
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When the desired travel speed is reached, depress the top half of the cruise control switch **(1)**. An amber light **(A)** will illuminate on the instrument panel indicating the cruise control is engaged. To disengage the cruise control, depress the bottom half of the switch **(2)** or depress both brake pedals. The amber light will extinguish, indicating the cruise control is off.

NOTE: *The rocker switch has three positions, the top half engages the cruise control, the middle is neutral, and the bottom half will disengage the cruise control.*



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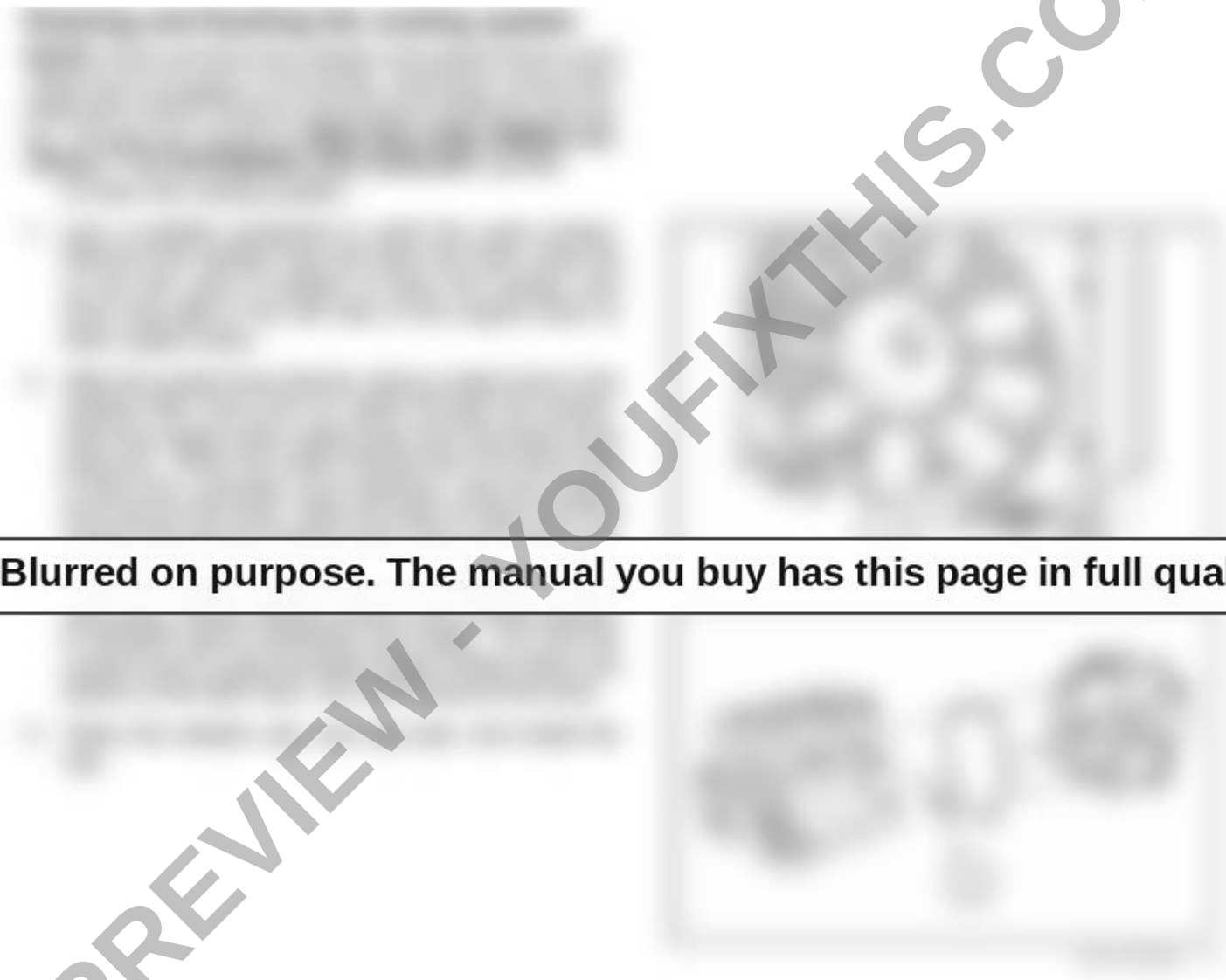
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Engine coolant - Draining and flushing - Roll Over Protective Structure (ROPS)

⚠ WARNING

Hot liquid under pressure!
Never remove the filler cap or the recovery tank cap while the engine is running or the coolant is hot. Let the system cool. Turn the filler cap to the first notch and allow any pressure to escape, and then remove the filler cap. Loosen the recovery tank cap slowly to allow any pressure to escape.
Failure to comply could result in death or serious injury.

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Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Tractor intended use 1-2
Emissions overview 1-4
Electro-Magnetic Compatibility (EMC) 1-7
Manual scope 1-7
Product Identification Number (PIN) 1-9
Operator's manual storage on the machine - Roll Over Protective Structure (ROPS) 1-10
Operator's manual storage on the machine - Cab 1-10
Machine orientation - Roll Over Protective Structure (ROPS) 1-11
Machine orientation - Cab 1-12

2 SAFETY INFORMATION

Safety rules and signal word definitions 2-1
Safety rules 2-2
Do not operate tag 2-10
Folding Roll Over Protective Structure (ROPS) 2-11
Starting up the machine safely 2-12
Stopping the machine safely 2-17
Ecology and environment 2-18
Safety signs - Cab 2-19
Safety signs - Roll Over Protective Structure (ROPS) 2-31
Instructional signs - Cab 2-43
Instructional signs - Roll Over Protective Structure (ROPS) 2-50

3 CONTROLS AND INSTRUMENTS

Access to operator's platform

Operator's platform access - Roll Over Protective Structure (ROPS) 3-1
Cab door 3-2
Cab side window 3-3
Cab rear window 3-3

Operator's seat

Seat belt - Cab 3-4
Seat belt - Roll Over Protective Structure (ROPS) 3-4
Seat controls - Cab 3-5
Seat controls - Roll Over Protective Structure (ROPS) 3-6

Forward controls

Instrument panel 3-7
Engine fault code display 3-11
Cruise control 3-18
Transmission shuttle shift lever 3-19
Clutch pedal 3-19

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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 and on machine safety signs, 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. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

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 damage or property damage. The color associated with Notice is BLUE.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine damage 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 machine safely

To stop the engine, carry out the following procedures:

1. Remain in the operator seat.
2. Pull the hand throttle lever rearward to the idle position.
3. Engage the park brake.
4. Ensure all gearshift levers, range levers or shuttle shift lever are in the neutral position and the Power Take Off (PTO) switch is in the OFF position.
5. Push the Hydraulic Power Lift (HPL) control lever forward to lower implements to the ground.
6. Turn the key to the STOP position to shut the engine off.

   NOTE: *When the operator turns the key to the STOP position 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.*

   NOTE: *If the key is not in the STOP position after the engine has stopped, the warning lights will remain on and discharge the battery.*

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