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# FARMALL® 30C
# FARMALL® 35C
## Compact Tractor

# OPERATOR'S MANUAL

**Part number 47578253**
1st edition English
January 2014

CASE IH AGRICULTURE

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# 2 - SAFETY INFORMATION

## Precautionary statements

### 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.

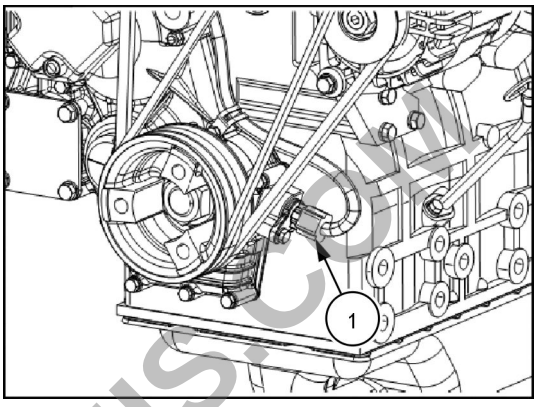
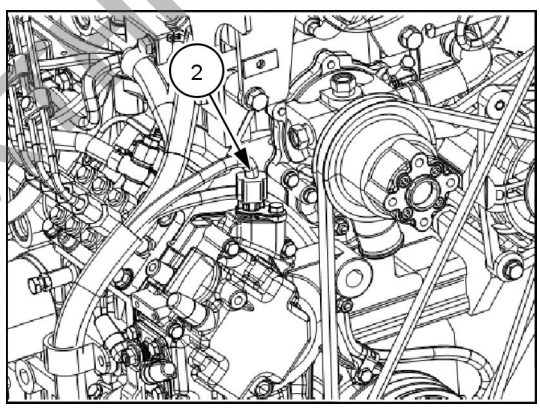
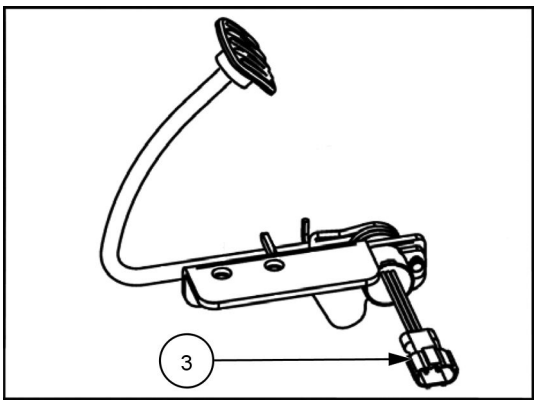
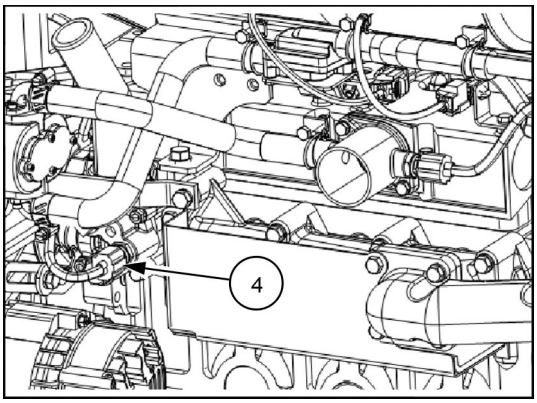
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# Engine fault codes display

## Engine fault codes

| Fault code | Possible cause | Check | Location |
|---|---|---|---|
| ABO2 | Main speed sensor **(1)**<br>Sub speed sensor **(2)** | Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00055AC 1<br><br>NHIL14CT00056AC 2 |
| AB04 | Foot throttle pedal position sensor **(3)** (Gear transmission tractors only) | Normal sensor signal 0.2 to 4.25 volts<br>Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00061AC 3 |
| AB07 | Engine coolant temperature sensor **(4)** | Normal sensor signal 0.11 to 25.4 ohms<br>Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00057AC 4 |

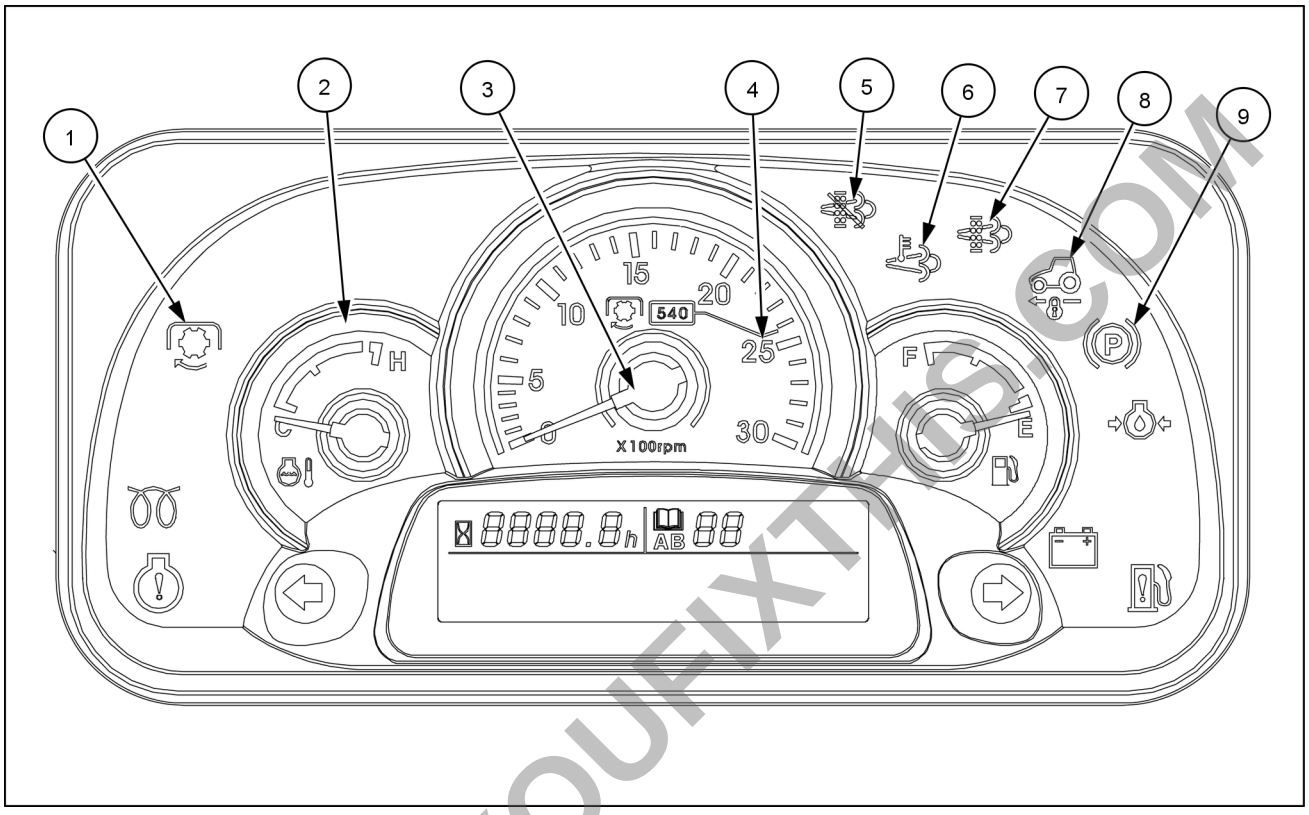
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## FORWARD CONTROLS

# Instrument panel




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1. PTO Indicator Light - When either the rear or mid PTO is engaged, the indicator will be illuminated amber with the key in the "START" or "ON" positions.
2. Temperature Gauge - Indicates coolant temperature. It is activated when the key switch is turned to the "ON" position. The gauge will register cold with the key switch in the "OFF" position. If the needle registers in the white range of the gauge, this indicates a normal operating temperature. If the needle moves to the red portion of the gauge, this indicates an overheated condition. Stop the tractor engine immediately and investigate the cause.
3. Tachometer - Registers engine rpm (Revolutions Per Minute). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
4. 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, and the engine rpm should be reduced immediately.
5. Diesel Particulate Filter (DPF) Inhibited Indicator Light - This indicator light will be illuminated when the (DPF) switch is placed in the inhibited position, to indicate the regeneration of the (DPF) is stopped.
6. Diesel Particulate Filter (DPF) Temperature Indicator Light - This indicator light will be illuminated when the engine exhaust temperature is sufficient for the regeneration of the (DPF) to start.
7. Diesel Particulate Filter (DPF) Regeneration Indicator Light - This indicator light will be illuminated either continuous or blinking, when the regeneration of the (DPF) is in operation. The regeneration is started when the (DPF) soot load is over 60% or every four hours of operation and the engine exhaust temperature is at a sufficient temperature for regeneration to start.
8. Cruise Control Indicator Light (HST only) - Illuminates amber with the key switch in the "ON" position and the cruise control rocker switch is engaged.
9. Park Brake Indicator Light - Illuminates if the park brake is engaged with the key switch rotated from the "OFF" position.

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# 4 - OPERATING INSTRUCTIONS

## COMMISSIONING THE UNIT

### Engine break-in procedure

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

1. Avoid "lugging" the engine. Operating in too high a gear under heavy load may cause engine lugging, which is indicated when the engine will not respond to a throttle increase.
2. Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular operation. Operating the tractor in low gear with a light load and high engine speed wastes fuel.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to recommended levels. Daily checks include the engine oil level, radiator coolant, and air cleaner.
5. After the first 50 hours of use, be sure to perform the maintenance items listed in the maintenance schedule.

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# Attaching three-point equipment

**⚠ WARNING**

**Entanglement hazard!**
**Before attaching or detaching equipment or changing the Power Take-Off (PTO) shaft: 1) Apply the parking brake. 2) Move all controls to neutral and PTO control knob to the disengaged position. 3) Stop the engine and remove the key. 4) Wait for the PTO shaft to stop turning before leaving the cab.**
**Failure to comply could result in death or serious injury.**

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***NOTICE:*** *When attaching mounted or semi mounted implement to the three-point linkage, ensure that there is adequate clearance between the implement and the rear of the tractor. The clearances in the raised position should be checked by raising the implement carefully with the position control lever. With the implement fully raised there must be at least* ***100 mm*** *(****4 in****). Clearance between the implement and the nearest part of the tractor.*

Most implements can be attached to the tractor as follows:

1. Position the tractor so that the lower link hitch points are level with and slightly ahead of the implement hitch pins. Carefully bring the tractor rearwards to match the tractor and implement hitch points. First attach the left-hand lower link, then by adjusting the leveling box, attach the right lower link.
2. Lengthen or shorten the top link until the implement mast pin can be inserted through the mast and upper link of the implement.
3. When detaching the implement, the procedure is the reverse of attaching. The following hints will make detaching easier and safer.

- Always park the implement on a level, firm surface.
- Implement should be supported so that it cannot tip or fall when detached from the tractor.
- Always relieve all hydraulic pressure in any remote cylinders before detaching.

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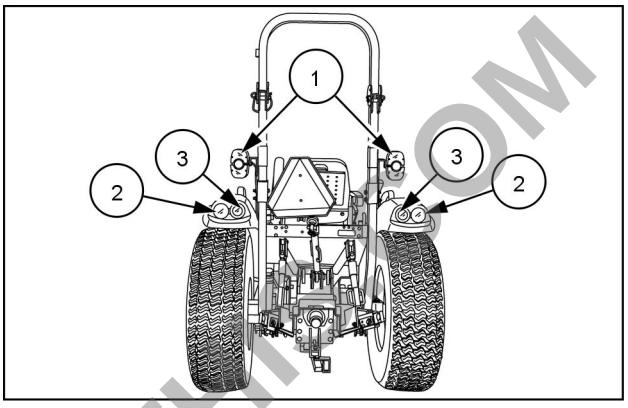
# 5 - TRANSPORT OPERATIONS

## ROAD TRANSPORT

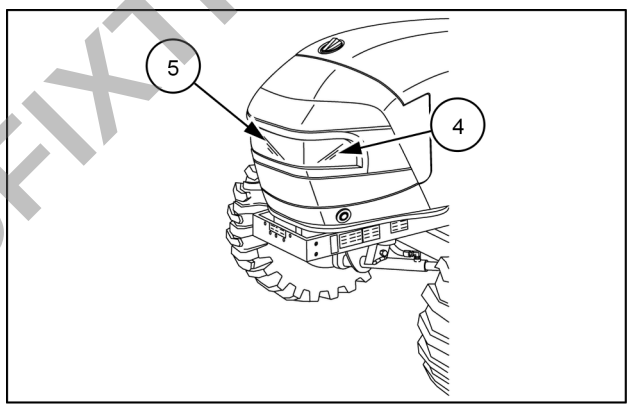
### External lighting - Identification

Your tractor is equipped with:

- Turn signal/hazard side warning lights **(1)**.
- Rear amber warning lights **(2)**
- Rear red tail/brake lights **(3)**.
- Road lights **(4)** Work Lights **(5)**.
- Rear Work Light (Optional) mounted on the rear of the ROPS.




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## MAINTENANCE CHART

# Maintenance Chart

| Maintenance action | Grease | Tighten | Replace | Change fluid | Check | Cleaning | Drain fluid | Bleed | Adjust | Test | Page no. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Every 10 hours or daily** | | | | | | | | | | | |
| Engine oil level | | | | | ■ | | | | | | **7-7** |
| Engine cooling system | | | | | ■ | | | | | | **7-9** |
| **After first 50 hours** | | | | | | | | | | | |
| Engine oil and filter | | | ■ | | | | | | | | **7-10** |
| Pre-fuel filter | | | ■ | | | | | | | | **7-12** |
| Fuel filter | | | ■ | | | | | | | | **7-13** |
| Hydraulic oil filter | | | ■ | | | | | | | | **7-14** |
| Hydrostatic (HST) oil filter | | | ■ | | | | | | | | **7-14** |
| Roll Over Protective Structure (ROPS) | | | | | ■ | | | | | | **7-15** |
| Wheels bolt/nut | | | | | ■ | | | | | | **7-16** |
| **Every 50 hours** | | | | | | | | | | | |
| Grease fittings | ■ | | | | | | | | | | **7-17** |
| Transmission fluid level | | | | | ■ | | | | | | **7-18** |
| Clutch pedal free play | | | | | ■ | | | | | | **7-18** |
| Brake pedal free play | | | | | ■ | | | | | | **7-19** |
| Hydrostatic transmission (HST) neutral adjustment | | | | | ■ | | | | | | **7-19** |
| Engine belts | | | | | ■ | | | | | | **7-20** |
| Tires and wheels | | | | | ■ | | | | | | **7-21** |
| Front axle differential oil level | | | | | ■ | | | | | | **7-22** |
| Air cleaner | | | | | ■ | | | | | | **7-23** |
| **Every 100 hours** | | | | | | | | | | | |
| Fuel filter | | | | | ■ | | | | | | **7-24** |
| **Every 300 hours** | | | | | | | | | | | |
| Engine oil and filter | | | ■ | | | | | | | | **7-25** |
| Hydraulic filter | | | ■ | | | | | | | | **7-25** |
| Hydrostatic (HST) oil filter | | | ■ | | | | | | | | **7-25** |
| Pre-fuel filter | | | ■ | | | | | | | | **7-25** |
| Engine belts | | | | | ■ | | | | | | **7-25** |
| Wheels bolt/nut | | | | ■ | | | | | | | **7-25** |
| Air cleaner primary element | | | ■ | | | | | | | | **7-26** |
| **Every 500 hours** | | | | | | | | | | | |
| Fuel filter | | | ■ | | | | | | | | **7-27** |
| **Every 600 hours** | | | | | | | | | | | |
| Front axle differential fluid | | | ■ | | | | | | | | **7-28** |
| Transmission fluid | | | ■ | | | | | | | | **7-29** |
| **Every 1000 hours** | | | | | | | | | | | |
| Air cleaner inner element | | | ■ | | | | | | | | **7-30** |
| Engine coolant | | | | | | | ■ | | | | **7-31** |

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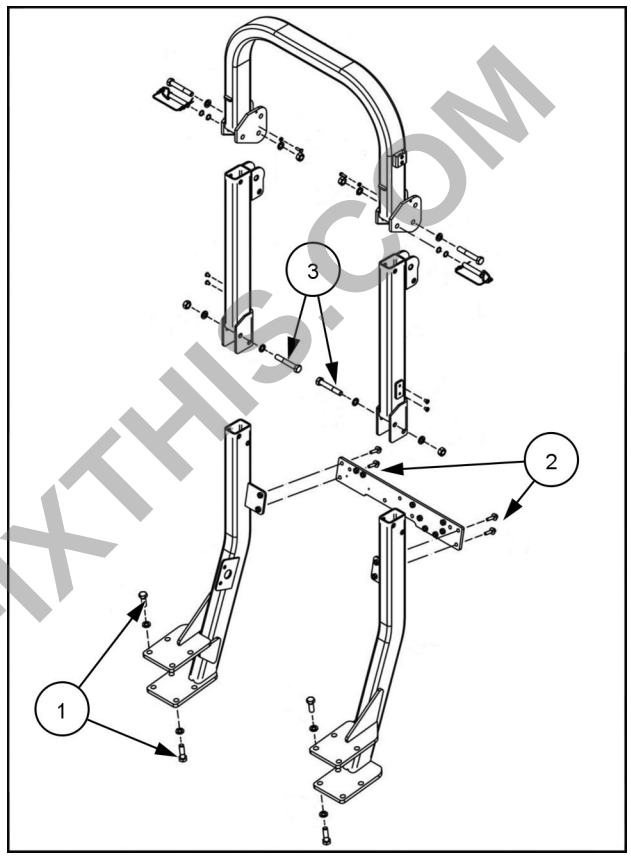


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# Roll Over Protective Structure (ROPS)

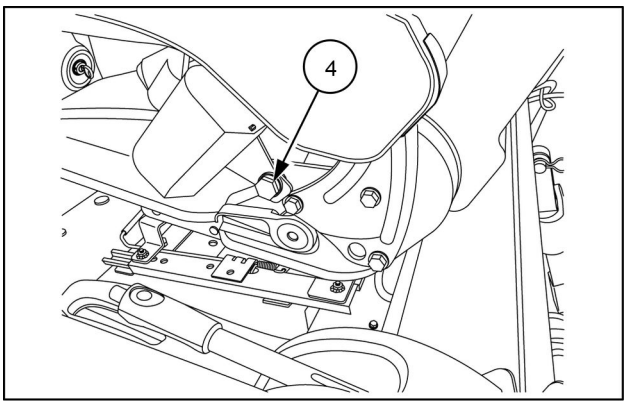
***NOTE:*** *Inspect the ROPS after the first 50 hours of operation. Following the initial inspection, the ROPS should be checked after every 300 hours of operation or every six months, whichever comes first.*

1. Check the torque of the ROPS bottom portion mounting bolts, **(1)**. Tighten the **M14** bolts to the correct torque of **147 N·m** (**108 lb ft**) if necessary.
2. Check the torque of the ROPS cross brace mounting bolts **(2)**. Tighten the **M10** bolts to the correct torque of **60 N·m** (**41 lb ft**) if necessary.
3. Check the torque of the ROPS mid portion mounting bolts **(3)**. Tighten the **M14** bolts to the correct torque of **147 N·m** (**108 lb ft**) if necessary.




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4. Inspect the operator's seat and the mounting parts for the seat belt. Tighten theM10 bolts **(4)** to the correct torque of **54 N·m** (**40 lb ft**) if necessary and replace any parts that show wear or damage.




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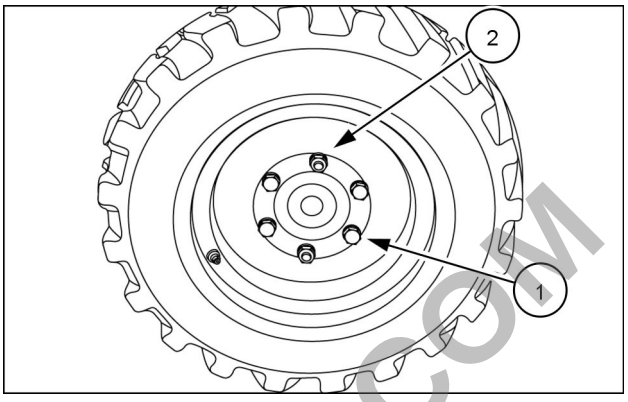
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# Wheels bolt/nut

Tighten the wheel bolts **(1)** and nuts **(2)** to the specified torque any time the wheel assembly is removed from the tractor or the wheel bolts are loosened.

Front Wheel Torque

- **176 - 196 N·m** (**130 - 145 lb ft**)



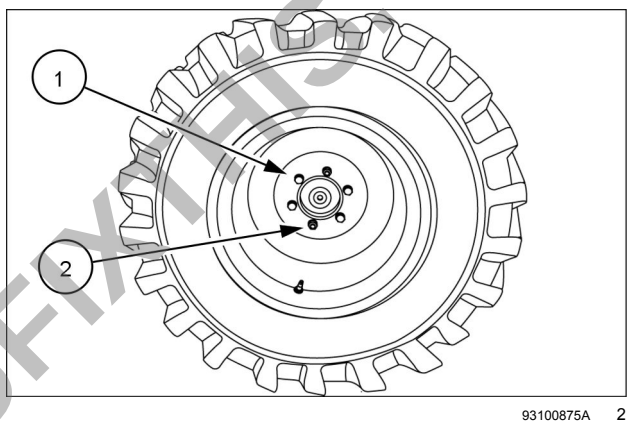

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Rear Wheel Torque

- **176 - 196 N·m** (**130 - 145 lb ft**)

***NOTICE:*** *Check and tighten wheel bolts* ***(1)*** *and nuts* ***(2)*** *to proper torque specifications after the following hours of use:*

- First 5 hours
- First 50 hours
- Every 300 hours




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# Starting the engine

**⚠ WARNING**

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

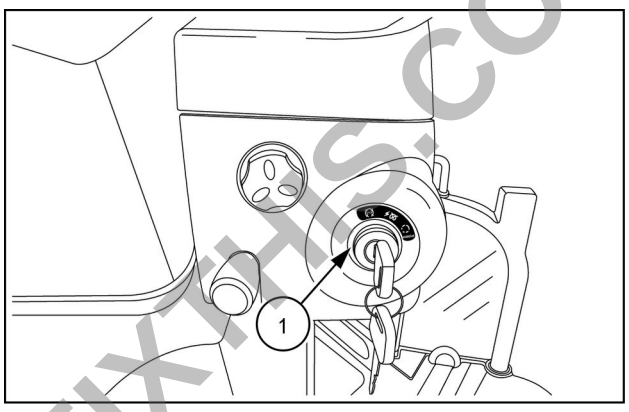
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## Gear model

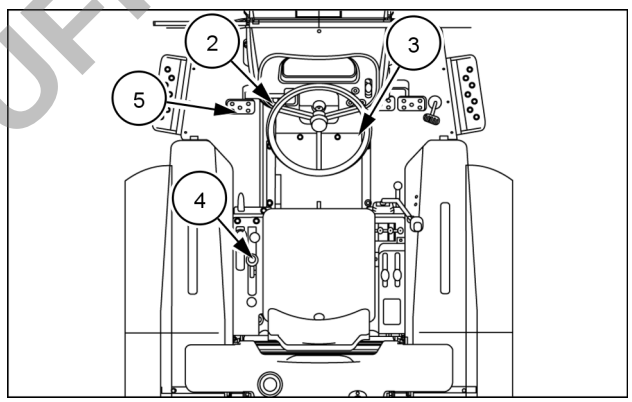
The key switch **(1)** allows activation of the starter motor and fuel delivery only when:

- The transmission forward/reverse shuttle lever **(2)** is in the neutral position.
- The PTO switch **(3)** is in the "OFF" position.
- The mid PTO lever **(4)** is in the "OFF" position (if equipped).
- The clutch pedal **(5)** is depressed.

***NOTE:*** *Although the tractor can be started with the operator out of the seat, this practice is not recommended. However, an alarm will sound if the park brake is not engaged, indicating that the operator needs to engage the park brake.*




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