3 - CONTROLS AND INSTRUMENTS

Access to operator's platform

Before operating

⚠ CAUTION

Avoid injury and/or machine damage!
Before driving the machine, make sure that you are familiar with the operation of the machine and the Multi-Function Handle (MFH). Do not use the Shuttle Mode option until you are completely familiar with the operation of the machine and the MFH.
Failure to comply could result in minor or moderate injury.

C0117A

Read this section thoroughly. It details the location and operation of the various instruments, switches and controls on your tractor. Even if you operate other tractors, you should thoroughly read this section of the manual and ensure that you are familiar with the location and function of all the features of the tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all the controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of the tractor, consult your authorized dealer.

Pay particular attention to the recommendations for running-in to ensure that your tractor will give a long and dependable service for which it was designed. See **Running-In Procedure**

This sections is split into 5 subjects, as follows. Where a feature requires setting up and running adjustments in the field, detailed instructions will be found in Chapter 4 , Field Operation

Lubrication and maintenance requirements will be found in Chapter 7 . Tractor specifications are listed in Chapter 9 .

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4 - OPERATING INSTRUCTIONS

Commissioning the unit

Before operating

⚠ CAUTION

Avoid injury and/or machine damage!
Before driving the machine, make sure that you are familiar with the operation of the machine and the Multi-Function Handle (MFH). Do not use the Shuttle Mode option until you are completely familiar with the operation of the machine and the MFH.
Failure to comply could result in minor or moderate injury.

C0117A

Read this section carefully for a thorough understanding of operational requirements. Even if you operate other tractors of different make & model, you should thoroughly read this section of the manual and make sure that you are familiar with the location and function of all the controls of this tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of tractor, consult your Authorized Dealer.

See Section 7 for lubrication and maintenance requirements. Tractor specifications can be found in Section 9

Running-in procedure

Your tractor should provide long and trusted service, if given proper care during the first **50 h** running-in period and if serviced at the recommended intervals

Avoid overloading the engine. Operation in a high gear under heavy load may cause engine overloading. Overloading can be ascertained by checking whether engine is responding to a throttle increase.

Do not operate the engine without load. This can be as harmful to the engine as overloading. Ensure that the engine is subjected to heavy as well as light loads during the running-in period.

Use the lower gears when pulling heavy loads and avoid continuous operation at constant engine speeds. Operating the tractor in a low gear with light load and high engine speed will waste fuel. You will be able to save fuel and minimize engine wear by selecting the correct gears for a particular operation.

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7 - MAINTENANCE

General information

Introduction

This section gives full details of the service procedures necessary to maintain your tractor at peak efficiency. The maintenance chart, See **7-7** provides a ready reference to these requirements. Each operation has been numbered for easy reference. If in doubt about any aspect of lubrication and maintenance, consult your authorized dealer.

Safety precautions

Read and observe all safety precautions listed in “Servicing the Tractor” in the introduction section at the front of this Manual.

NOTE: *Dispose off used filters and fluids properly as per the laws of the country.*

⚠ CAUTION

Avoid injury!
Do not remove the vent caps while the engine is running.
Failure to comply could result in minor or moderate injury.

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During the first 50 hour operation

In addition to the regular maintenance operations listed, check following items every **10 h** or daily during first **50 h** of operation:

1. Check engine oil.
2. Check Transmission oil level
3. Wheel nuts for tightness.

NOTE: *Park the tractor on level ground and where applicable, extend all cylinders on implements or attachments before checking oil levels.*

The First 50 Hours Service

In the first **50 h** service, make sure that following additional service operations are carried out. Items are listed in the ‘First **50 h** service’ check list (See Warranty Booklet supplied along with this manual).

- Check and adjust fan/alternator belt tension.
- Change engine oil and filter.

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2 - SAFETY INFORMATION

Safety rules

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before driving, operating or servicing the tractor. Equipment should be operated only by those who are responsible, trained & authorized to do so.

Precautionary statements

Throughout this manual you will see text, preceded by the words NOTE, ATTENTION, CAUTION, WARNING or DANGER. Such text has the following significance

Machine Safety

NOTE: *This text stresses a correct operating technique or procedure.*

NOTICE: *This text informs the reader about something that he needs to know to prevent minor machine damage if a certain procedure is not followed*

General safety rules

Modifications made to this machine may increase the likelihood or potential for debris accumulations that would normally not be present. Modifications include frame-mounted attachments, plates, screens, or other aftermarket equipment. Operators of modified machines must be aware of accumulations of organic debris and/or material and overall machine cleanliness.

Modified machines require additional and more frequent inspection and cleaning during usage. The machine may require inspection and cleaning multiple times per day during usage. Operators must be aware of the operating environment and conditions. Operators must take appropriate actions to maintain the machines during use. In particular, pay attention to the following machine areas:

1. In and around the engine compartment
2. Hot exhaust components
3. Moving, turning, or rotating machine components

Operators that operate the machine in a typical applications and/or conditions must be aware of accumulations of organic debris and/or material and overall machine cleanliness. Pay particular attention where material accumulations are possible or may result.

Machines that operate in a typical applications or conditions require additional and more frequent inspection and cleaning during usage. The machine may require inspection and cleaning multiple times per day during usage. Operators must be aware of the operating

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NOTICE: *Some mounted or semi mounted implement may interfere with and cause damage to tractor sheet metal. To avoid damage check for clearance between tractor and implements.*

NOTE: *High precision hydraulic is available as an option for better performance in levelling and potato planting applications.*

Pre-operation checks

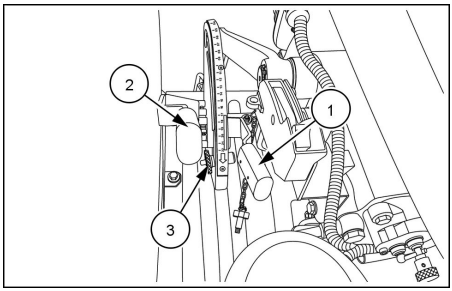
⚠ WARNING

Avoid injury!
Before working on, servicing, or making adjustments on the implement, always:
1. Raise the implement.
2. Install the lift locks.
3. Disengage power.
4. Shut off the tractor engine.
5. Make sure that all moving parts have stopped.
6. Make sure that all pressure in the system is relieved.
Failure to comply could result in death or serious injury.

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Position control operation

Position control provides accurate control of implements such as sprayers, rakes, rotary tillers etc. that operate above the ground. Once set, Position control will maintain the selected implement height.



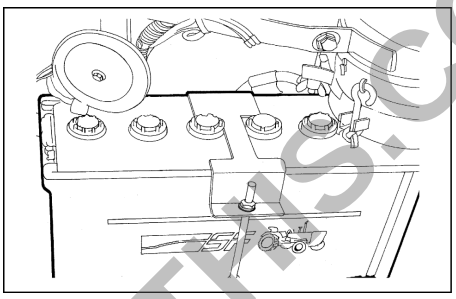
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Always set the system to position control at any time when not actually operating in draft control, such as when attaching or transporting equipment or when no equipment is attached.
Fully open the response control valve and move the draft control lever **(1)** fully forward in the quadrant. Set the required implement height/depth using the position control lever **(2)** . Pull the lever back to raise the implement, push forward to lower. Implement height depth is relative to the position of the lever in quadrant.
An adjustable stopper **(3)** is provided to enable the lever to be returned to the required working position.

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Battery - Check

1. The battery is located in front of the radiator.
   The battery electrolyte level should be between minimum and maximum. lines provided on battery container.
   If necessary, top up with distilled or demineralized water until the level is correct. Do not overfill. Never use tap water or water from rain barrel or other source.
   To prevent the formation of corrosion, the terminals should be cleaned and smeared with petroleum jelly (Vaseline) only, no grease should be applied.

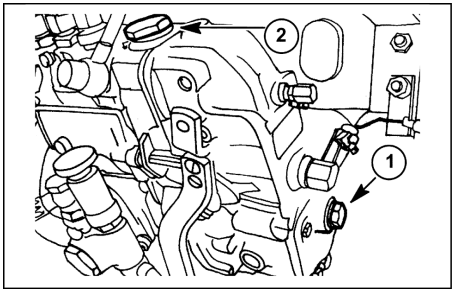


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NOTE: *In the event that battery is severely discharged, such that the terminal voltage is below 7 volts, recovery will require a special charging procedure, see your Authorised Dealer.*

Fuel Injection Pump Oil level-Check

1. Before checking the oil level, ensure that the tractor is on level ground, stop the engine and wait for a short period to allow the oil to drain back.
   Remove the level plug **(1)** and drain out any excess or contaminated oil.
   If the oil level is below level plug, add fresh oil through Plug **(2)**.



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EVERY 300 HOURS

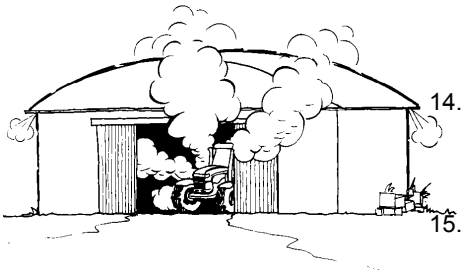
Fuel filters - Replace

Primary

NOTE: *Before loosening or disconnecting any part of the fuel system, thoroughly clean the area to be worked on to prevent contamination.*

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tilation. Exhaust fumes are toxic and can cause death.



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11. Pull only from the pick-up hitch, swinging drawbar or the lower link drawbar in the lowered position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to overturn.
12. Always select Position Control while attaching or transporting equipment. Be sure hydraulic couplers are properly mounted so that they can be disconnected safely in case of accidental detachment of the implement.



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13. If front end of the tractor tends to rise when heavy implements are attached to the three- point hitch, install front end weights. Do not operate the tractor with a light front end.
14. Engage the clutch slowly when driving out of a ditch, gully or up a steep hillside. Disengage the clutch promptly if the front wheels rise off the ground.
15. For any attachment or accessories ensure following:-
    A. Are approved for use with the tractor,
    B. Are correctly installed
    C. Operated and maintained in accordance to instructions issued by equipment or accessories manufacture
16. Remember that your tractor, if abused or incorrectly used, can be dangerous and become a hazard both to the operator and by- standers. Do not overload or operate with attached equipment which is unsafe, not designed for the particular task or is poorly maintained.
17. Do not leave implement in the raised position when the vehicle is parked or is left unattended.
18. Always wear a protective mask when working with toxic spray chemicals. Follow the directions on the chemical container

Operating the Power Take-Off (PTO)

1. After operation of PTO driven implement is over, shut off the engine, switch off the PTO and wait until the PTO stops before getting off the tractor.

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International symbols

As a guide to the operation of the machine, various universal symbols have been utilized on the instruments, controls, switches, and fuse box. The symbols are shown below with an indication of their meaning.


Thermostart starting aid


Roof beacon


PTO


Alternator charge

KAM Keep Alive Memory

N Transmission in neutral


Fuel level


Turn signals


Creeper gears


Automatic Fuel shut-off


Turn signals — one trailer


Slow or low setting


Engine speed (rev/min x 100)


Turn signals — two trailers


Fast or high setting


Hours recorded


Front windscreen wash/wipe


Ground speed


Engine oil pressure


Rear windscreen wash/wipe


Differential lock


Engine coolant temperature


Heater temperature control


Rear axle oil temperature


Coolant level


Heater fan


Transmission oil pressure


Tractor lights


Air conditioner


4WD engaged


Headlight main beam


Air filter blocked


Warning!


Headlight dipped beam


Parking brake


Hazard warning lights

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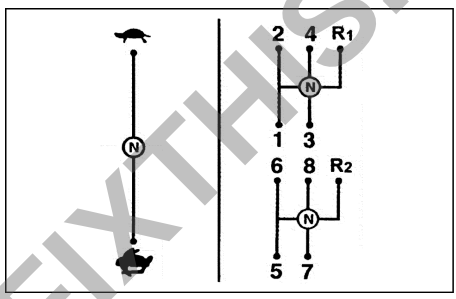
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Transmission

Transmission - Control identification

8 + 2 Speed - constant mesh transmission

The transmission has eight forward and two reverse gears. The gear shift levers, operate in an H-Pattern.



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⚠ WARNING

Equipment rolling hazard!
Firmly apply the handbrake and, where fitted, place the shuttle lever in the electronic park brake position. Stop the engine before leaving the machine. The transmission will not prevent the machine from rolling when the engine is shut off.
Failure to comply could result in death or serious injury.

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