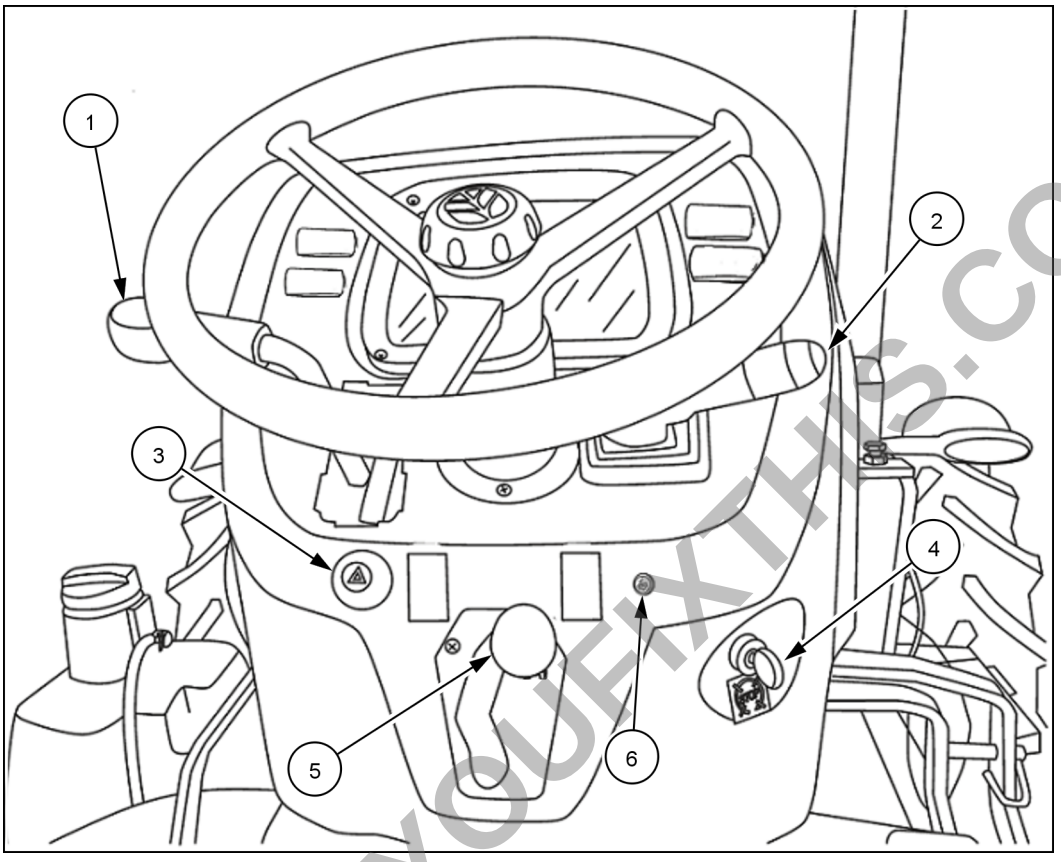
Forward controls

Electrical system - Operating



ANIL17TRO0139FA 1

1. Shuttle lever.
2. Multifunction lever
3. Hazard warning light switch.
4. Ignition key
5. PTO lever
6. PTO button

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4 - OPERATING INSTRUCTIONS

Starting the unit

Engine - Operating

STARTING THE ENGINE

a. If the tractor has not been used for some time, or if started up for the first time at a low surrounding temperature, actuate the fuel pump starting lever around twenty times.
b. Ensure that both gear levers are in neutral position.
c. Move the throttle lever to around the half way position.
d. Turn the ignition key to position C, Release the key as soon as the engine starts.

STARTING IN A LOW EXTERNAL TEMPERATURE

NOTE: *When the external temperature is low and the engine is cold, cover the radiator before starting so that the engine coolant can quickly reach operating temperature. Then remove the cover.*

STARTING IN LOW OUTSIDE TEMPERATURE CONDITIONS

When starting the engine with low outside temperatures and when the engine is cold, proceed as follows:

1. Avoid running down the battery. Any single engine starting attempt shoud not last longer than **15 s**. If the engine fires but does not start, continue the attempt up to a maximum of **30 s** .
2. Wait for at least one minute between each attempt to start the engine.
3. To avoid excessively running down the battery, do not make more than six attempts to start the engine.

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7 - MAINTENANCE

General information

Grouped Safety Message

⚠ DANGER

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

D0010A

⚠ DANGER

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

D0030A

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W1023A

⚠ WARNING

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

W0004A

⚠ WARNING

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

W0132A

⚠ WARNING

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

W0138A

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2 - SAFETY INFORMATION

Personal safety

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 machine. Equipment should be operated only by those who are responsible and instructed to do so.

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 which, if not avoided, will result in death or serious injury. The color associated with DANGER is RED.

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

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, 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 which, if not avoided, could result in machine 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 or property damage. The word Notice is used to address practices not related to personal safety.

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6 WORKING OPERATIONS

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Note to the Owner

Your machine is designed according to European directives related to health and safety risks. Though it has been designed to minimize all the potential risks it is mandatory to carefully read, understand and observe all the decals and labels of the PPP (Plant Protection Product) and to always refer to information and descriptions outlined in this manual to prevent all residual potential risks. In case you may need further assistance, please do not hesitate to contact your dealer.

Your machine is designed and made to pull, to carry and to power a variety of mounted or towed equipment, although within some physical limits. The working speed and performance may depend on a number of various parameters, such as weather and terrain conditions. Though the machine is designed to perform in combination with a variety of equipment, there may be a number of combinations of above parameters, for which there is severe degradation of performance of the machine and/or its mounted or trailed equipment. If you notice degradation of performance, contact your dealer for assistance, he may have useful information for improvements, or a kit may be available to enhance the performance.

Please carefully read and consider following precautions:

- Do not use this machine for any purpose or in any manner other than described in the manual, decals, or other product safety information provided with the machine. These materials define the machine's intended use.
- Do not use the machine beyond its limits of terrain gradient and stability. Using the machine beyond these limits may result in roll over or tip over. Observe the recommendations in this manual.
- Travel speed should be such that complete control and maintain the machine stability at all times. A wet surface or other low adherence conditions may increase the braking distance or result in vehicle instability. Always adapt your traveling speed according to the load of the vehicle and the characteristics of the road.
- Do not use the machine near or on soft verges of canals and brooks or banks and verges that are undermined by rodents. The machine may sink sideways and roll over.
- Do not use the machine on brittle bridge- heads and poor bridge floors. These constructions may collapse and cause roll over of the machine.
  Always inspect the condition and carrying capacity of bridges and ramps prior to crossing
- Do not use equipment mounted on the machine, which is not correctly matching and firmly fixed. Such equipment may increase the risk for roll over and hit the machine when coming loose. Ensure that the dimensions of the three- point linkage interface of both the machine and the equipment are matching according to the categories defined in ISO 730. Ensure that the dimensions and speed of the Power Take-Off (PTO) shaft on the machines are matching those of the equipment.
- Do not use the machine in combination with equipment, without having consulted the specific Operator's Manual provided with the equipment. The machine is a universal tool to carry, tow and drive a variety of equipment. This manual alone cannot provide you with all the information required for the safe operation of the combination.
- Do not use the machine for pulling work, in cases where you do not know whether the load will yield, for instance when pulling stumps; the machine may flip over when the stump is not yielding.
- Be cautious that the centre of gravity of the machine may increase when loads on the front- end loader or the three point linkage are raised. In these conditions, the machine may roll over earlier than expected.
- Do not step down from the machine without shutting down the PTO , shifting the transmission to park or neutral and applying the park brake, unless continued PTO operation is required for some equipment, such as pumps or wood chippers. The latter equipment may have an emergency stop device on the equipment itself, as human intervention is needed during operation. However other equipment, engaged and driven by the machine will have no means to stop the power transmission, other than the PTO clutch of the machine.
- You shall take the necessary precautions (e.g. assistance) to always be aware of the possible presence of bystanders, certainly when manoeuvring in confined areas, such as the farmyard and sheds.
  Keep people away from the machine during work. Ask bystanders to leave the field. There is not only the risk to be overrun by the machine, but objects ejected by some equipment mounted on the machine, such as a rotary mower, may cause harm. Stones may be thrown further than the mowed crop. Pay the necessary attention while operating next to public roads or footpaths. Thrown objects can get projected outside the field and hit unprotected people like bikers or pedestrians. Wait to cut the edge of the field till it is clear of bystanders.
- Do not allow riders on the machine; do not allow people standing on the access way or step to the cab when the machine is moving. Your view to the left will be obstructed and a rider risks to fall from the machine during unforeseen or abrupt movements.
- Always stay clear form implements operating area and especially do not stand between machine and trailed vehicle either three- point linkage when operating lift controls; ensure no bystanders are near to these operating areas.
- Certain functions of your machine are controlled by software and some of them are safety related. Do not attempt to modify or download software not certified and distributed by the manufacturer. Electronical

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ADVICE ON STARTING THE ENGINE WITH A FLAT BATTERY OR NO BATTERY

To prevent damage to the alternator and its incorporated voltage regulator follow the procedure below:
When the tractor battery is partially discharged, and an auxiliary battery has to be used to start the engine, connect the auxiliary battery to the tractor battery ensuring that the terminal symbols match (positive to positive and negative to negative). Connect the positive lead first followed by the negative lead.
Start the engine using the key start switch.When the engine starts, allow it to run at idle speed, turn on all electrical equipment (lights, etc.). This will help protect the alternator from possible damage due to extreme load changes. Now disconnect the auxiliary battery leads. Remove the negative lead first, followed by the positive lead.
If you have to start the engine with a totally flat battery or where the tractor does not have a battery remember that:

it is not possible to start the tractor by towing as the electro--magnetically operated injection pump cut--off will prevent the engine from starting;
it is however necessary to connect a 12 V auxiliary battery capable of starting the tractor

Under normal conditions, the engine must never be run unless plug **(D)** +, terminal **(B)** + and the condenser are disconnected from the alternator.
When recharging the tractor battery, it must be removed from the tractor to avoid possible damage to the alternator and related circuits. Observe the rule relating to lead connection (positive to positive and negative to negative).

Stopping the unit

Engine - Operating

STARTING THE TRACTOR

Press the clutch pedal and move the main gear lever and creeper lever to the desired settings **3-9**.
Accelerate the engine as necessary.
Release the handbrake lever and engage the clutch, releasing the pedal slowly.

ATTENTION: *To extend the service life of the tyres and the transmission components, it is advisable not to use the tractor continuously at full power when working at speeds of less than* ***7 km/h*** *(* ***4.35 mph*** *), particularly when the tractor is excessively ballasted. It is not advisable to ballast the tractor too heavily when towing heavy loads and travelling at low speeds. Follow the instructions given in this chapter on ballast and hitch components.*

STOPPING THE TRACTOR

Reduce engine speed.
Depress the transmission clutch pedal and brake.

With the tractor stationary, move the main shift and range gear levers to neutral, release the clutch pedal and engage the handbrake.

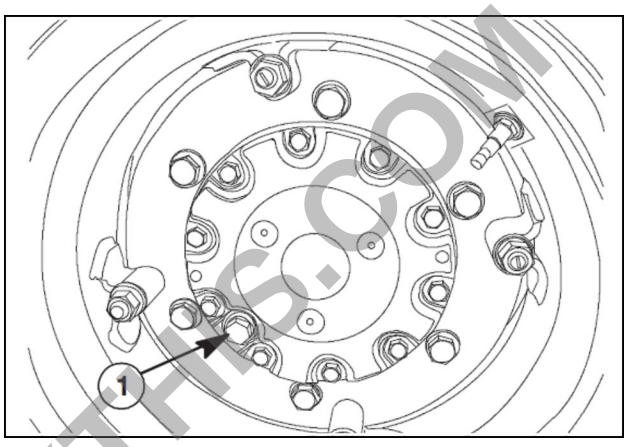
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Wheel hub - Change fluid FRONT AXLE HOUSING

Position plug **(1)** to its lowest point, place a container under the plug hole and drain the oil.
Rotate the wheel so that the plug hole is in a horizontalposition and fill with new oil.

NOTE: *For oil grades, see the lubrication charts beginning on* ***7-9****.*



WHEELHUB 1

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- **Tow hitch - General specification**

Z | Safe methods for rear towing.

Avoid rear upset hazards. Use the correct location on the machine when attaching equipment. Do not use the hitch as a drawbar if the horizontal load is greater than maximum value provided in Specifications section.

The following connections are available:

Connection type	Instructions
Drawbar	**Drawbar - Operating** **Maximum permitted loads on drawbar**.
Towing hitch	**Drawbars and towing hitches - Operating** **Drawbars and towing hitches - Operating** **Tow hitch - General specification**.
Three-point hitch	**Rear hitch - Adjust**, **Quick hitch - Operating**, **Three-point hitch - Dimension** **General specification**

Follow the instructions and precautions in this manual (see **Rear three-point hitch - Personal safety** and **Brakes and controls - Safety rules**).

AA | Battery isolators.

The battery isolator disconnects the battery from the main electrical circuit. See **Pillar trim plate - Localization overview** for battery isolator switch positions. See **Electronic battery isolator - Operating** for when to use the battery isolator.

AB | Seat belts.

Always use the seat belt when you operate the machine. See **Safety rules - Seat belts** - **Seat restraints - Localization overview**

AC | Autoguidance systems.

The requirement does not apply to the models.

AD | Safe use of a Roll-Over Protective Structure (ROPS).

ROPS can not be folded on this machine. Always keep ROPS locked in upright position.Follow this instructions in this manual, including the proper use of your seat belt (see **Roll Over Protective Structure (ROPS) frame - Operating**).

AE | Consequences in the event of roll over with a non removable Roll-Over Protective Structure (ROPS).

Using a cabless machine with a non removable ROPS could cause injury in the event of a roll over.

Avoid crushing hazards:

- Always wear the seat belt when operating the machine with the ROPS.
- DO NOT operate the machine with the ROPS removed. Remove the ROPS only for service or replacement.
- See **Roll Over Protective Structure (ROPS) frame - Operating**

AF | Appropriate use of a non removable Roll-Over Protective Structure (ROPS).

For machines without a cab, the operator can not fold the ROPS.. See: **Roll Over Protective Structure (ROPS) frame - Operating**.

AG | Greasing points.

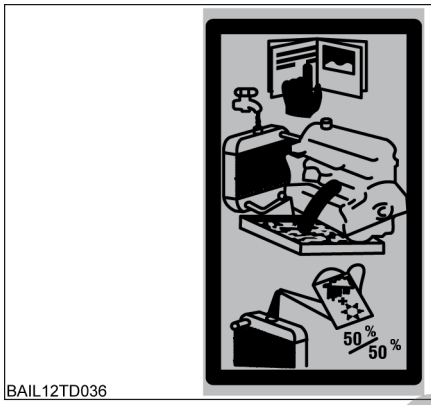
See the Maintenance chapter in this manual to locate the greasing points. Perform the needed greasing at the suggested intervals. See **Maintenance chart** .

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9. Location: Left and right- hand sides of the radiator.

   ATTENTION: *Pressurised cooling system. Allow to cool then remove cap carefully. Use a cloth to slowly unscrew the cap and release the pressure before completely removing the cap.*



BAIL12TD036 10

10. Location: Left and right- hand sides of the radiator.To avoid serious injury, keep hands and clothing away from the rotating fan, belts and any other rotating parts.



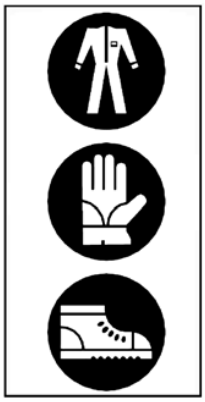
000286 11

11. Location: On the left hand side of the steering colum. Do not grasp the transmission levers when climbting the tractor. Use only the hand holds provided.



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12. Location: On the left side, front of the rear fender. Wear close fitting clothing and use all the PPE (Personal Protective Equipment) appropriate devices for the job.



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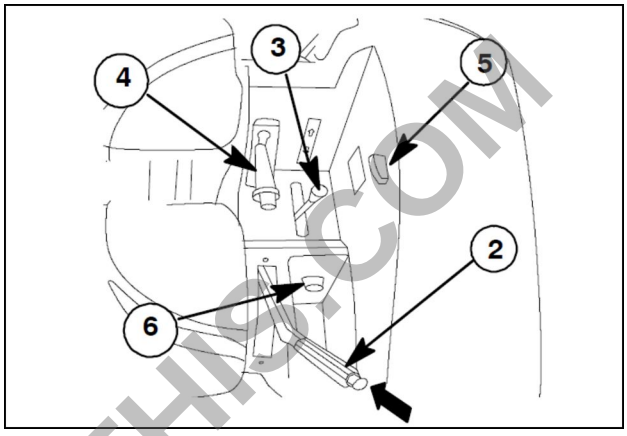
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Left-hand side controls

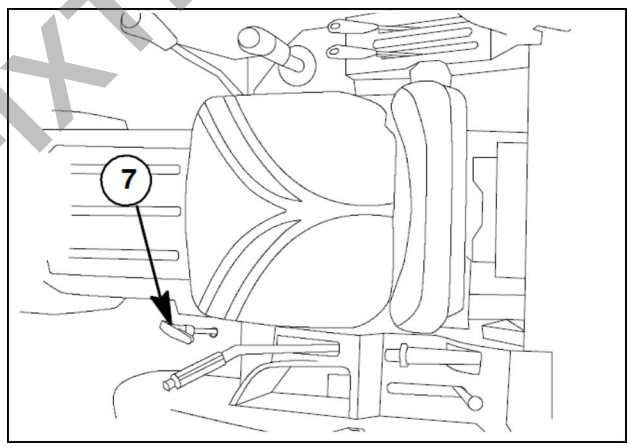
Console Left-hand console - Operating

Left-hand side controls

2. Handbrake lever (wish push button release)
   — up =brake on
   — down(horizontal) =brake off
3. Power take-off operation selector lever
4. Power take-off speed selector lever
5. Beacon control switch
6. Lighter
7. Mechanically controlled creeper lever (Optional)
   — pulled downwards: engaged
   — pushed upwards: disengaged.



SOL_KUMANDA 1

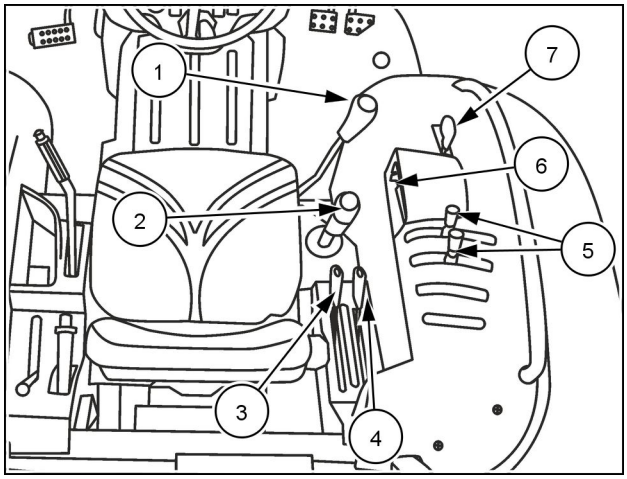


SOL_KUMANDA2 2

Right-hand side controls

Platform, cab, bodywork, and decals - Localization overview

1. Gear lever.
2. Range lever.
3. Draft control lever.
4. Position control lever.
5. Remote valve control levers.
6. **Lift-O-Matic™** switch.
7. Hand throttle;
   — Forward: Engine RPM increases
   — Backward: Engine RPM decreases



VITESS 1

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