4 - OPERATING INSTRUCTIONS

Starting the unit

BEFORE OPERATING THE TRACTOR

CHECKS BEFORE USING THE TRACTOR

Before using the tractor, check that you are familiar with the position and function of all the tractor controls.

Ensure that the maintenance and lubrication operations described in of this Manual are fully carried out.:

After daily maintenance, carry out a visual inspection of the outside of the tractor, paying particular attention to the following points

1. Signs of cracking on the fan belt.
2. Accumulation of dirt around the engine.
3. Signs of leaks or damaged components connected to pressure tubes, sleeves and connectors.
4. Damaged tyres.
5. Loose fasteners.
6. Accumulation of dirt on, or leaks from, the hydraulic pump and connected parts.

Always carry out any necessary repairs before using the tractor again.

BEFORE USING THE TRACTOR

Read this section of the Operator's Manual carefully before using the tractor. This is particularly important if the tractor is to be used correctly as it contains all the information required on the layout and use of the tractor controls.

Even if you already have experience in using other makes of tractor, this section of the Manual especially must be studied carefully and thoroughly

After reading this section in full, ensure that you are fully familiar with the layout and use of the controls. Ensure too that you know the specifications of the tractors in question.

Never start the engine and tractor if you have not already familiarised yourself with all the controls.

Finding out once the tractor is moving may be too late.

If you have any doubts about any functional aspect of the tractor, contact your dealer.

Particular attention needs to be paid to the tractor's running–in period, to obtain the best operating reliability and service life for which it is designed and built.

With regard to the reliability and service life of your tractor, study section **Maintenance chart** carefully.

Section **Maintenance chart** contains details of all the lubrication and general maintenance operations to be carried out on the tractor.

Tractor data and specifications are noted in Section **Frame - Dimension**.

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Maintenance planning

Maintenance chart

Maintenance action	Check	Filling	Adjust	Cleaning	Drain fluid	Bleed	Change fluid	Grease	Test	Replace	Tighten	Page no.
As required maintenance												
Expansion tank - Check	x											7-13
Windshield washer fluid reservoir - Filling		x										7-14
Receiver-dryer - Check	x											7-15
Radiator - Check	x											7-16
Brake pedals - Check	x											7-17
Hydraulic service brakes - Adjust			x									7-18
External lighting - Check	x											7-19
Front wheels - Check	x											7-20
Clutch cable - Adjust			x									7-21
At warning message display												
Air cleaner - Cleaning				x								7-22
Brake fluid reservoir - Filling		x										7-23
Fuel filters - Drain fluid					x							7-24
EVERY 10 HOURS OR EACH DAY												
Engine oil pan - Check	x											7-25
Battery - Check	x											7-26
Expansion tank - Check	x											7-13
Wiper and washer system - Check	x											7-28
Air filter - Cleaning				x								7-29
Air filter Recirculation filter - Cleaning				x								7-30
Engine cooling system - Cleaning				x								7-31
Air tanks - Bleed						x						7-32
Initial 50 hours												
Maintenance - Tighten											x	7-33
Maintenance - Check	x											7-34
Maintenance - Replace										x		7-35
Maintenance - Cleaning				x								7-36
Maintenance - Test									x			7-37
Maintenance - Grease											x	7-38
Every 50 hours												
Steering cylinder - Grease - (2WD)											x	7-39
Axle articulation - Grease											x	7-40
Steering knuckle and king pin - Grease											x	7-41
Front axle system - Grease											x	7-42
Rear three-point hitch - Grease											x	7-43
Hand brake lever - Grease											x	7-44
Every 100 hours												
Air-conditioning condenser - Cleaning				x								7-45
Oil cooler/Heat exchanger - Cleaning				x								7-46
Aftercooler - Cleaning				x								7-47
Air filter - Cleaning				x								7-48
Air filter Recirculation filter - Cleaning				x								7-49
Belt - Check	x											7-50
Compressor drive belt - Check	x											7-51

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8 - TROUBLESHOOTING

Fault code resolution

Introduction

TROUBLESHOOTING

LOCATING AND IDENTIFYING PROBLEMS

INTRODUCTION

The following information is intended to help in the identification and correction of any tractor faults or malfunctions.

PROBLEM CODES – AREAS AFFECTED

The following information lists problems which could arise, the reasons for them and appropriate corrective action. The areas affected are dealt with in the following order:

Engine	Hydraulic System	Brakes
Electrical system	Hydraulic lift	Cab

Alarm(s)

ENGINE

Problem	Possible Cause	Correction
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check fuel level.
	Air in fuel system.	Bleed fuel system.
	Engine oil viscosity not right.	Use oil of right viscosity.
	Fuel not suitable for ambient temperature.	Use correct type of fuel for temperature conditions.
	Fuel system contaminated.	Clean system.
	Fuel filter clogged.	Replace filter element.
	Fuel injector fault.	Contact your dealer.
The engine does not run properly and/or cuts out.	Fuel system contaminated.	Clean system.
	Fuel injector fault	Contact your dealer
Engine does not reach maximum power.	Engine overload.	Change to lower gear or reduce load.
	Air filter clogged.	Carry out maintenance on air filter.
	Incorrect fuel type.	Use the right fuel.
	Low engine operating temperature.	Check thermostat.
	Fuel injector fault.	Have your dealer check the injectors.
	Implement incorrectly set.	See equipment manual.
	Valve clearance wrong.	Check and adjust.
	Idling speed too low.	Contact your dealer.
Abnormal engine knocking.	Oil level low.	Top up oil.
	Oil pressure low.	Contact your dealer.
Low engine operating temperature.	Thermostat malfunction.	Replace thermostat.
Oil pressure low.	Oil level low.	Add oil as required.
	Oil grade or viscosity wrong.	Drain and refill with oil of correct grade and viscosity.
Excessive oil consumption.	Oil level too high.	Reduce oil level.
	Oil viscosity wrong.	Use oil of correct viscosity.
	Oil leaking.	Repair leaks.
	Breather pipe filter clogged.	Replace breather pipe filter.
Engine overheating.	Radiator core clogged.	Clean.
	Engine overload.	Change to lower gear or reduce load.
	Engine oil level low.	Top up oil level.

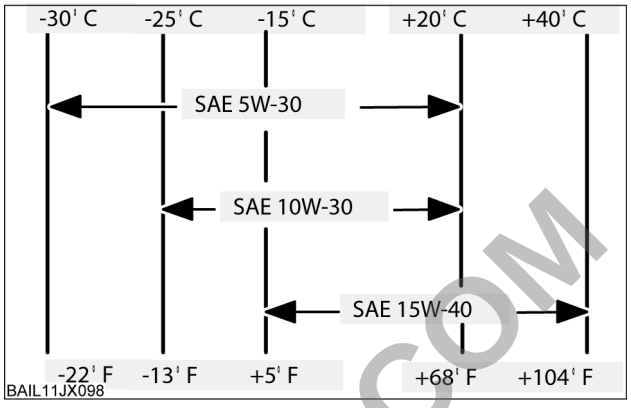
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Consumables

Lubricants

Refer to the chart on the right when selecting the oil grade for your tractor engine.
In areas where prolonged periods of extreme temperatures are encountered, local lubricant practices are acceptable; such as the use of SAE 5W in extreme low temperatures or SAE 50 in extreme high temperatures.



BAIL11JX098 1

Sulphur in Fuel

The engine oil change period is shown in **Engine lubrication system - Replace**. However, locally available fuel may have a high sulphur content, in which case the engine oil change period should be adjusted as follows:

Sulphur Content %	Oil Change Period
less than 0.5	normal
0.5 to 1.0	half the normal
above 1.0	one quarter normal

The use of fuel with a sulphur content above **1.3%** is not recommended.

BIODEGRADABLE TRANSMISSION, DRIVE AXLE, HUB, AND HYDRAULIC SYSTEM OIL

A biodegradable oil has been approved for use in the transmission, drive axles, hubs, and hydraulic system of your tractor. The oil is sold under the name **NEW HOLLAND AMBRA MULTI BIO S** and it is available through your authorized dealer. While **NEW HOLLAND AMBRA MULTI BIO S** oil is **90%** biodegradable, it is still important to follow safe handling and disposal practices.

NEW HOLLAND AMBRA MULTI BIO S oil should not be used in conjunction with other oils. Use the following procedure to replace standard oil with **NEW HOLLAND AMBRA MULTI BIO S**.

1. Operate tractor until the oil that is being replaced reaches a temperature greater than **60 °C** (**140 °F**) .
2. Stop the engine and immediately drain the oil following the instructions in this section.
3. Replace all transmission and hydraulic filters.
4. Add **NEW HOLLAND AMBRA MULTI BIO S** to the proper level and run the tractor to circulate the oil.
5. Check for leaks and recheck the oil level.

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2 - SAFETY INFORMATION

SAFETY PRECAUTIONS

Read the following safety regulations carefully and follow the recommendations in order to avoid potential hazards and safeguard your health and safety.

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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ANALOGUE/ DIGITAL INSTRUMENT CLUSTER
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Safety rules – Battery

⚠ General safety regulations for the battery ⚠

Always wear eye protection when you work on the batteries.

Do not create sparks or have open flame near a battery.

Ventilate when charging or using in enclosed area.

The negative terminal (-) must be disconnected first and reconnected last.

Do not weld, grind or smoke near a battery.

To start the engine with auxiliary batteries or jumper wires, follow the steps outlined in the operator's manual. Do not short across terminals.

When you store and handle the batteries, follow the manufacturer's instructions.

Battery posts, terminals and related accessories contain lead or lead compounds. Wash your hands after maintenance operations.

Keep out of reach of children and other unauthorized persons.

Battery acid causes burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes, or clothing.

Antidote (in case of external contact):

- Rinse with water.

Antidotes (eyes):

- Rinse with water for 15 minutes.
- Consult a doctor immediately.

Antidote (if swallowed):

- Drink large quantities of water or milk.
- Do not induce vomiting.
- Seek medical attention immediately.

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PREVENTION OF FIRE OR EXPLOSION

PROTECTION AGAINST FIRE

The cab is burning proof certified.

FIRE OR EXPLOSION PREVENTION

Remove all litter or debris from the machine each day; especially check the engine area and exhaust system Sparks or flame can cause the hydrogen gas in a battery to explode. o prevent an explosion observe the following precautions:

- When disconnecting the battery cables, disconnect the negative **(–)** cable first; when connecting the battery cables, connect the negative **(–)** cable last..
- When connecting jumper cables to start the engine, use the procedure shown in this manual (see Auxiliary Battery connections in this manual).
- Do not weld, grind or smoke near a battery. Sparks from the electrical system or engine exhaust can cause an explosion and fire. Before you operate this machine in an area with flammable dust or vapors, use good ventilation to remove the flammable dust or vapors.
- Do not short circuit the battery terminals with a metal object.
- Use a non flammable cleaning solvent when cleaning parts on the machine.
- Keep the cooling system clean and maintain the correct coolant level.
- Make sure that you DO NOT store oily rags or other flammable materials on the machine.
- Engine fuel can cause an explosion or fire. Do not fill the fuel tank with the engine running; if you are near an open fire; or if you are welding, smoking, etc.
- If the machine has an oil, fuel or hydraulic leak, always repair the leak and clean the area before operating.
- Check the electrical system for loose connections or frayed insulation.

FIRE EXTINGUISHER

Only operate your tractor when an approved fire extinguisher is installed.

⚠ WARNING

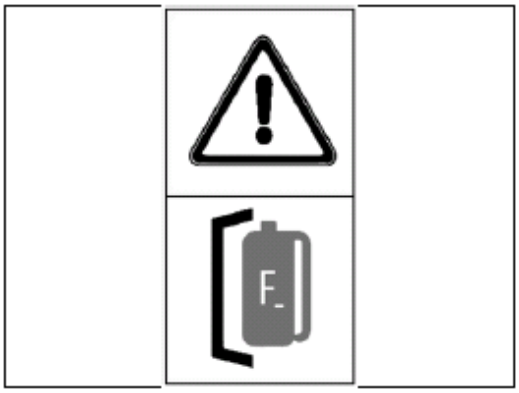
Avoid injury and/or machine damage!
Always have a fire extinguisher on or near the machine. Keep the fire extinguisher in good condition through routine maintenance and service according to the manufacturer's instructions.
Failure to comply could result in death or serious injury.

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To check if the extinguisher is still under pressure, proceed as follows:

1. Unscrew the pressure gauge from the valve.
2. The needle will go from the green area to “0” in thered area.
3. Rescrew the pressure gauge on the valve. The needle will go from “0” in the red field to the greenfield.

- Operate the extinguisher from a safe distance.
- Pull the Pin at the top of the extinguisher.
- Aim at the base of the fire, not the flames.
- Squeeze the lever slowly. This will release the extinguishing agent; extinguishing agent; If the handle is released, the discharge will stop
- Sweep from side to side. Using a sweeping motion, move the fire extinguisher back and forth until the fire is completely out.
- Check for re–ignition of fire.



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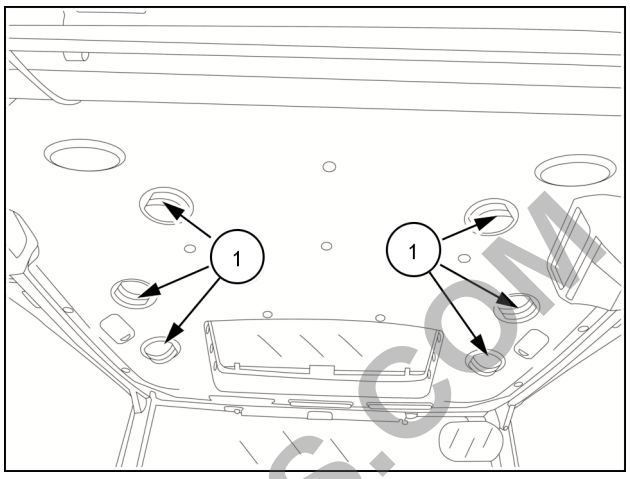
TEMPERATURE CONTROLS, CAB

VENTILATION – Fig. 1 — 3

Actuate the ventilation with switch **(2)**, Fig **3**, and direct the air flow by adjusting the rear swivel vents **(1)** and the front swivel vents **(2)**, Fig. **2**.

A 4–speed blower is installed for the heater (and air conditioner, where fitted). Each position corresponds to a different fan speed.

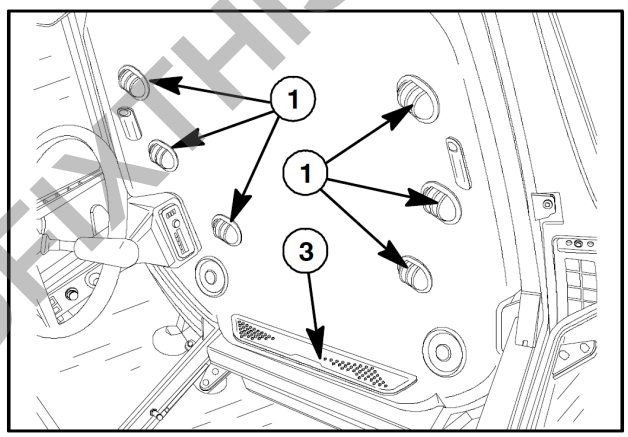
With the windows closed, the blower may be used to pressurise the cab to exclude dust etc. Provided that the cab air filters are serviced correctly, maximum pressurisation and optimum dust exclusion may be achieved by operating the blower at maximum fan speed. Cab recirculated air filter (3) cleans the air recirculated in the cab.



00258 1

Adjustable air vents (1) are provided throughout the cab for even distribution of heated or cooled air. Each vent may be independently adjusted to direct the air flow (with the blower control actuated) onto the side windows or the operator. The three vents (2) may be adjusted to defrost the windscreen.

To open the circular vents (1) press one side of the disc and then turn it, as required, to direct the air flow.

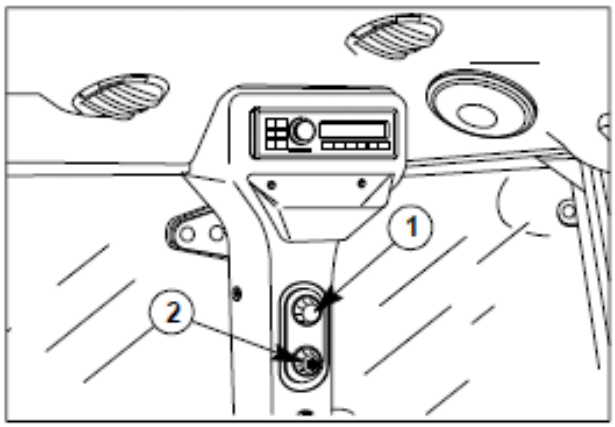


VENTILATION 2

HEATING – Fig. 3

The hot air temperature can be adjusted by means of the knob (1). By reducing or increasing the circulation of coolant from the engine, with the electric fan (2) the quantity of air entering the cab through the vents (3) (fig. **1**) can be varied.

By turning the temperature adjustment knob (1) anticlockwise (fully to the left), the circulation of hot air in the cab is interrupted; by turning the knob clockwise (fully to the right), maximum cab air temperature is selected.



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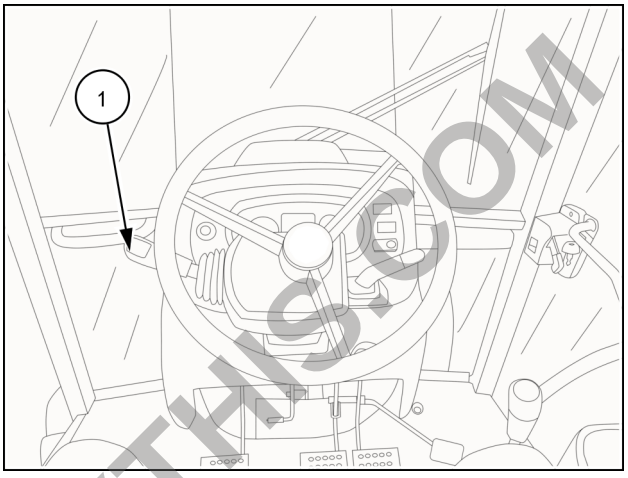
Left-hand side controls

LEFT-HAND SIDE CONTROLS

LEFT–HAND SIDE OPERATING CONTROLS

Fig. 1 – Fig. 2

1. Shuttle lever



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2. Handbrake lever (with push button release)

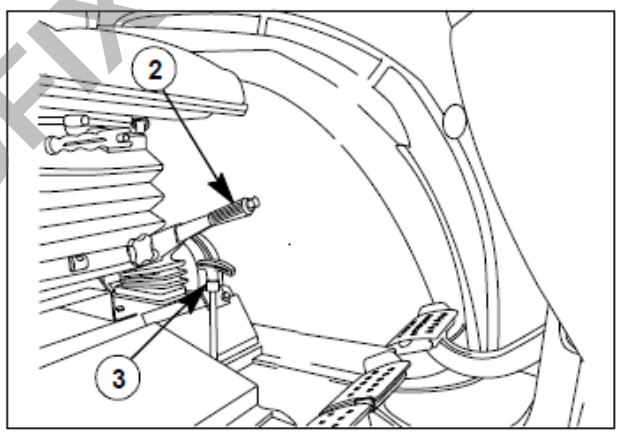
– up = brake on;

– down (horizontal) = brake off.

3. Mechanically controlled four–wheel drive lever

– pulled upwards: engaged

– pushed downwards: disengaged



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5 - TRANSPORT OPERATIONS

Preparing for road transport

CARRYING THE TRACTOR ON A TRANSPORTER LOADING THE TRACTOR ONTO A TRANSPORTER

TRANSPORTING THE TRACTOR

⚠ WARNING

Transport hazard!
The machine can slip or fall from a ramp or trailer. Make sure the ramp and trailer are not slippery. Remove all oil, grease, ice, etc. Move the machine on or off the trailer with machine centered on the trailer or ramp.
Failure to comply could result in death or serious injury.

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⚠ WARNING

Collision hazard!
Collision of high speed road traffic and slow moving machines can cause death or personal injury. On roads use transport lighting according to local laws. Make sure the Slow Moving Vehicle (SMV) emblem is visible.
Failure to comply could result in death or serious injury.

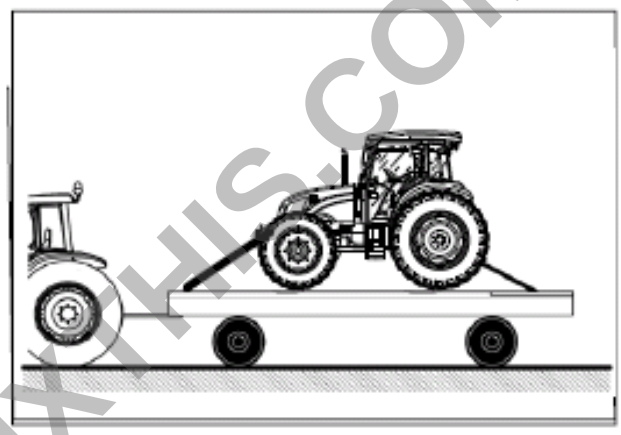
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To transport the tractor it is necessary to load it onto a suitable means of transportation; platform of the truck or trailer equipped with a double axle.

Engage the parking brake.

Secure the tractor on the vehicle with suitable anchoring belts or chains. Secure the rear of the tractor using the tow bar or tow bar supports and the front of the tractor using the towing hook.

NOTICE: *Do not hook or connect chains around the front axle drive shaft, the power steering cylinders, the front axle itself or other parts of the tractor which could be damaged either by the chains or excessive strain.*



000103 1

NOTICE: *On models fitted with the turbocharger, cover the exhaust outlet to prevent the turbocharger rotating in the wind, resulting in possible damage to the bearings. The turbocharger turbine must be prevented from rotating freely (with the engine off), as the shaft bearings will not be lubricated*

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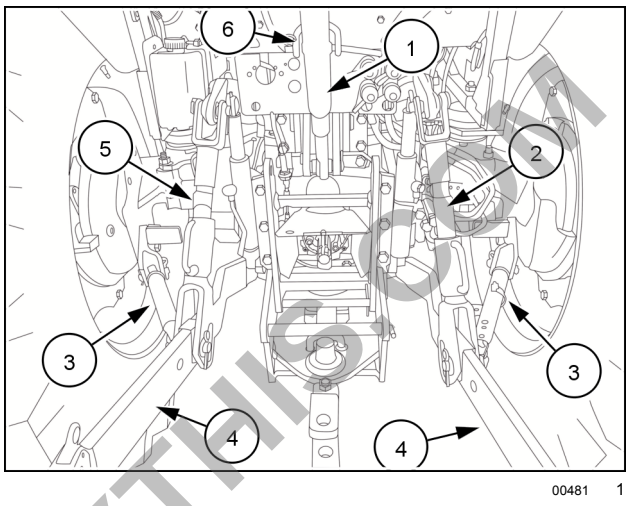
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THREE POINT HITCH

THREE – POINT LINKAGE

(CATEGORY II)

Tractors with / without cabs – Fig. 1



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1. Adjustable length top link.
2. Right–hand lift rod.
3. Telescopic lateral stabilisers
4. Lower links.
5. Left–hand lift rod.
6. Top link attachment bracket.

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LIQUID BALLAST

FILLING FRONT TYRES WITH ANTIFREEZE SOLUTION, FOUR–WHEEL DRIVE MODELS

You are therefore advised to contact your local tyre specialist.

The figures given in the table below are for information only as they may vary depending on the type of tyres us

TYRE DIMENSIONS	Minimum temperatures									
	– 5 °C (23 °F)		– 10 °C (14 °F)		– 15 °C (5 °F)		– 20 °C (-4 °F)		– 25 °C (– 13 °F)	
	Water kg (litres) (lbs)	Calcium chloride kg (lbs)	Water kg (litres) (lbs)	Calcium chloride kg (lbs)	Water kg (litres) (lbs)	Calcium chloride kg (lbs)	Water kg (litres) (lbs)	Calcium chloride kg (lbs)	Water kg (litres) (lbs)	Calcium chloride kg (lbs)
11.2–24	86 (190)	10 (22)	83 (183)	17 (37)	87 (192)	22 (48)	79 (174)	27 (59)	77 (170)	31 (68)
12.4–24	110 (243)	12 (27)	106 (234)	22 (48)	104 (230)	28 (62)	101 (223)	34 (75)	100 (221)	39 (86)
360/70R–24	96 (212)	11 (24)	92 (203)	19 (42)	90 (199)	25 (55)	88 (194)	30 (66)	86 (190)	34 (75)
13.6–24	115 (254)	13 (29)	110 (243)	23 (51)	108 (238)	30 (66)	106 (234)	41 (90)	103 (227)	41 (90)
14.9–24	144 (318)	16 (35)	138 (304)	28 (62)	135 (298)	37 (81)	132 (291)	45 (99)	129 (285)	51 (112)

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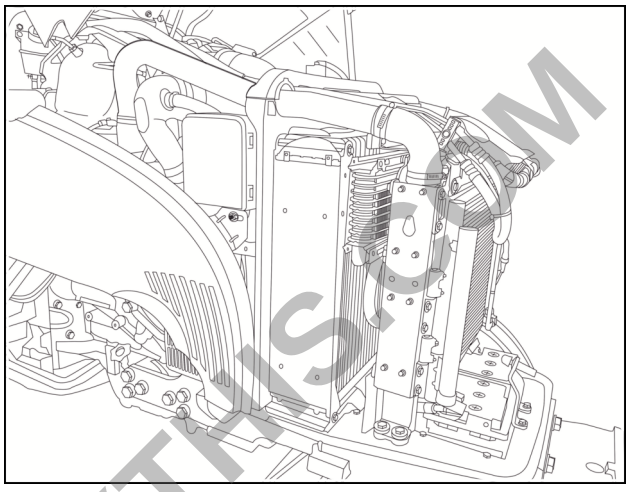
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Battery

BATTERY CAPACITY 100 Ah – Fig. 1

NOTE: *The 100 Ah capacity battery is located under the front of the hood. To access the battery open the bonnet.*

- The electrolyte level must be checked with the engine shut off, the tractor on a level surface and the battery cold.
- If the battery needs to be topped up frequently or tends to run down, have the electrical system checked by your dealer.



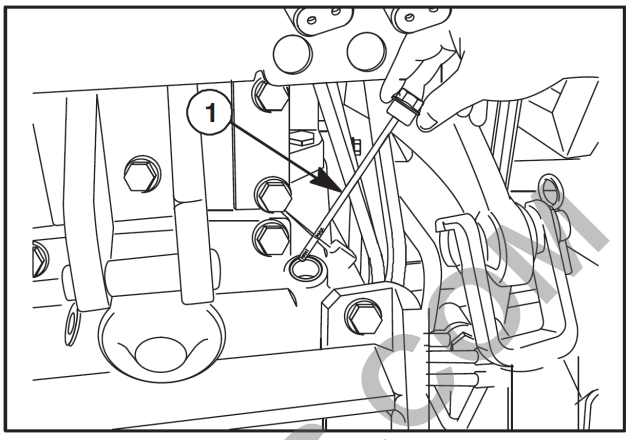
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Hydraulic oil tank

1. With the tractor on a level surface, the engine switched off and the lift arms lowered, check that the oil level reaches the “MAX” mark on the combined filler plug/ dipstick **(1)**.
   If the level is low, top up with oil in the hole the dipstick **(1)** fits into.
2. Hydraulic circuit oil: **NEW HOLLAND AMBRA MULTI G 134™ HYDRAULIC TRANSMISSION OIL** or **NEW HOLLAND AMBRA MASTERTRAN® ULTRACTION**.



HYD_OIL_TNK 1

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Hydraulic System

Problem	Possible Cause	Correction
The hydraulic system is not working properly.	Oil level low.	Top up system.
	Hydraulic filter clogged.	Replace hydraulic filter.
	Hydraulic system fault.	Contact your dealer.
Hydraulic fluid overheating.	Fluid level too high or too low.	Top up fluid level.
	Fluid filter element clogged.	Replace filter.
	Incorrect flow regulation.	Set to lower capacity.
Hoses not joined together properly.	Wrong male seals.	Replace seals with standard ISO ½in. connectors available from your dealer.
Automatic control valve pin release mechanism triggered too soon.	Automatic release pressure incorrectly set	Adjust automatic release pressure setting.
Remote control does not work.	Hoses not connected correctly.	Connect hoses correctly.
	Check oil flow in half seals.	Actuate control levers; if problems persist, replace male half seals.
	System overload.	Reduce load or use a suitable cylinder.

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Brakes

BRAKES

Rear service brakes

Hydraulically operated oil–immersed disc brakes.

Oil bath type, hydraulic actuation

5 plates

Pedals are connected for simultaneous braking when driving on roads.

Front service brakes

Disc brake, hydrostatically controlled (not available at all markets), mounted on front final drive.

Pedals are connected for simultaneous braking.

Parking brake on transmission

Hand control coupled to service brakes

Mechanically actuated from service brakes

5 plates

The parking brake device is able to hold the unladen tractor with a trailer on a 12 degree gradient facing up and downhill with the required force.

The parking brake device is able to hold the unladen tractor with a trailer on an 18% gradient facing up and downhill with the required force.

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