OPERATOR'S MANUAL Serie 3000 STAR Serie ENERGY 06381091 Edition 03 (English)

MANUFACTURER



Tractors for Life

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MODELS AND VERSIONS

ROLL BAR VERSION



- 3050
- 3050 SL High version
- Energy 60
- Energy 60 AL High version



- **.** 3080
- Energy 80
- Energy 80 AL High version

CAB VERSION



- Energy 60 GL10
- Energy 60 GL10 AL High version
- Energy 80 GL10
- Energy 80 GL10 AL High version

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GENERAL INFORMATION



ORIGINAL INSTRUCTIONS

INTRODUCTION

This manual contains a description of how the machine operates and instructions about how to correctly use the machine and perform the main routine and supplementary servicing operations. This manual is divided into chapters for practical consultation.

This manual must always be consigned together with the machine if this is transferred or sold. If the manual is damaged or lost, order a new copy from the manufacturer or from the previous owner. This manual is an integral part of the machine

The confidence you have shown in our company by choosing equipment carrying our trademark will be amply repaid by the excellent service it will give you over the years.

Correct use and normal routine maintenance will generously rewarded in performance, output and savings.

EN Inglese 6 GENERAL INFORMATION

HOW TO READ THE MANUAL



Certain sections of this manual containing information of particular importance in relation to safety or operation, are highlighted in the following way:



DANGER

Failure to comply with the instructions could lead to serious danger and serious personal injuries or harm to third parties.



WARNING

Failure to comply with the instructions could cause personal injuries or harm third parties.



IMPORTANT

The information is given with the intention of preventing damage to the machine or causing damage.

This manual is your operation and maintenance guide.

You are advised to strictly comply with the instructions herein and to consider the manual as an integral part of the product: it must be kept near the machine and consigned to all future users.

The illustrations, descriptions and specifications in this manual are not binding.

Our Company reserves the right to make any modifications dictated by technical or commercial requirements at any moment considered necessary.

Consult the specific manuals for safe operation and maintenance instructions about those parts of the machine manufactured by third parties.



All indications as to the "front", "rear", "right" and "left" parts of the machine refer to the operator on the machine.

A series of symbols have been make to make the texts easier to understand. Their meanings are described below:



Warning



Environment



Recycling



Legislation



i Information

Manual update

The information, descriptions and illustrations in this manual reflect the state-of-the-art at the time the machine was marketed.

The manufacturer reserves the right to make any modifications dictated by technical or commercial requirements at any time.

Such modifications do not oblige the manufacturer to modify the vehicles marketed up to that time nor to consider this publication to be inadequate.

Any integrations the manufacturer may provide must be kept together with the manual and will be considered an integral part of this latter.

Copyright

The copyrights of this manual belong to the manufacturer of the machine. This manual contains texts, drawings and illustrations of a technical kind that can neither be wholly nor partly disclosed or transmitted to third parties without written authorization from the manufacturer of the machine.

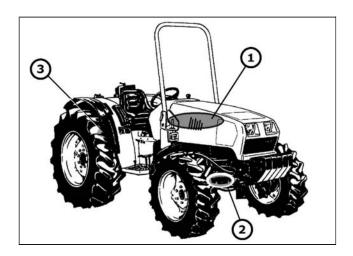
Standard symbols

Standard symbols have been used to ensure the machine is used in the best way.

	Hydraulic circuit filter		Driving beam	\Diamond	Oil
	Dipped beam	\Diamond	Transmission	Qii	Field light
	Differential lock	P\	Parking light	\\$	Power take-off
€0 0€	Side lights.	\$)	Power take-off rotation		Hazard lights
+	Clutch	党	Indicator light	(P)	Parking brake
\$	Turn indicator	ÞΞ	Four-wheel drive	\$	Trailer turn indicator
5	Guard lowered	þ	Horn.	← ⊱-∂	Forward direction
- +	Battery charger	¢	Low speeds		Safety belts
\square	Work hours	•	Normal speeds		ldle
⊳ ∏ J	Fuel level	4	Fast speeds	\bigcirc	Clockwise rotation
问问	Fuel filter	N	ldle	\bigcirc	Counter-clockwise rotation
6	Engine preheating	←∘→	Direction reverser	98	Air ventilation
	Engine air filter	\Diamond	Rotational accelerator	$\frac{\infty}{2}$	Air heating
₽	Engine oil pressure		Linear accelerator	**	Air conditioning
	Engine oil filter		Power lift	P	Windscreen wiper
	Engine coolant temperature		Power lift - Up	$\langle \! \! \hat{\nabla} \! \! \! \rangle$	Windscreen wiper and window washer
$ \mathbf{x} $	Air valve	7	Power lift - Down	\Box	Rear window wiper
	Hydraulic circuit		Power lift – Floating mode	Ü	Rear window wiper and window washer

MACHINE IDENTIFICATION

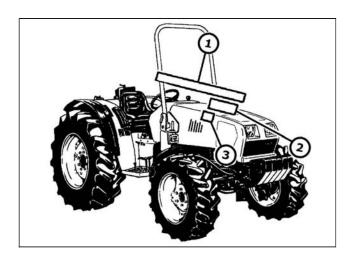
Identification criteria



The machine is identified in three different ways:

- 1) With decals.
- 2 Punch marks on chassis.
- 3 With a metal plate.

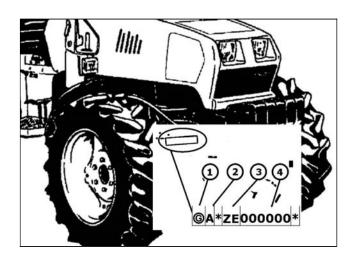
Decals



The decals affixed to the bonnet indicate:

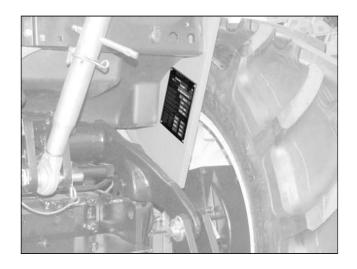
- 1 Brand.
- ② Series
- 3 Model

Punch marks on chassis



- 1 Manufacturer's code.
- 2 Production series
- 3 Type of machine
- 4 Identification number (serial number).

Metal plate



The metal plate is positioned in the interior of the right rear fender.

⊕ ⁴¹⁰⁴² GOLDONI Migliarina di Carpi	S.	р. А малта	NLY C	E
Den.com: 1 Type: 3 Var/Vers:	4		Serie: BS:	=
Nr.OMOLOGAZIONE: EEC number:	***	6		
Numero d'identificazione: 7				
Massa totale ammissibile : Allowable total weight :		8	5.	Kg
Carico ammissibile asse anterio Allowable load on front axle :	ore :	9		Kg
Carico ammissibile asse posteri Allowable load on rear axle :	iore :	10)	Kg
Massa rimorchiabile ammissibile Allowable towing weight :	: NAZ	. 13	EEC	12
-Non frenata: -Unbraked:	11	Kg	12	Kg
-Con frenatura -Indipendent indipendente: braking:	13	Kg	14	Kg
-Con frenatura -Inertial ad inerzia: braking:	15	Kg	16	Kg
-Con frenatura -Assisted assistita: braking:	17	Kg	18	Kg
MADE IN	ITALY	- 10 3		$- \Phi$

The metal plate gives the following information:

- 1. Commercial denomination
- 2. Production series
- 3. Type of machine
- 4. Variant/version
- 5. ABS coefficient
- **6.** Approval number
- **7.** Identification number (serial number)
- **8.** Total permissible weight (KG)
- **9.** Permissible load on front axle (KG)
- **10.** Permissible load on rear axle (KG)
- **11.** Non-braked permissible towed weight (in Italy) (KG)
- **12.** Non-braked permissible towed weight (European) (KG)
- **13.** Permissible towed weight with independent braking (in Italy) (KG)
- **14.** Permissible towed weight with independent braking (European) (KG)
- **15.** Permissible towed weight with overrunning braking (in Italy) (KG)
- **16.** Permissible towed weight with overrunning braking (European) (KG)
- **17.** Permissible towed weight with power braking (in Italy) (KG)
- **18.** Permissible towed weight with power braking (European) (KG)

	3050 3050 SL Energy 60	Energy 60 GL10	3080 Energy 80	Energy 80 GL10
Position		Kg		
11	1850	2030	1930	2070
12	2000	2000	1930	2070
13	5550	6000	5790	6000
14	6000	6000	5000	5000
15	6000	6000	5790	6000
16	6000	6000	6000	6000
17	/	/	/	/
18	10000	10000	10000	10000

IDENTIFICATION OF THE COMPONENTS

The machine consists of a series of main components which are each identified by a metal data plate and/or by punch marks.

Engine

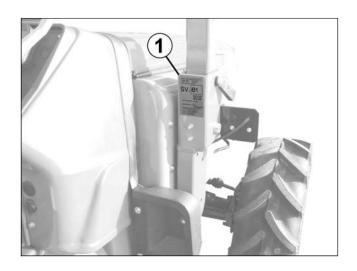
Metal data plate and punched code number.



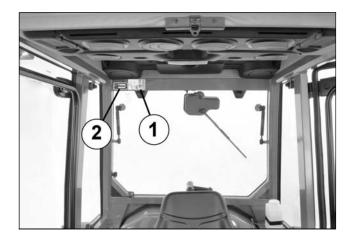
See engine's operation and maintenance manual.

Safety frame

Roll bar version

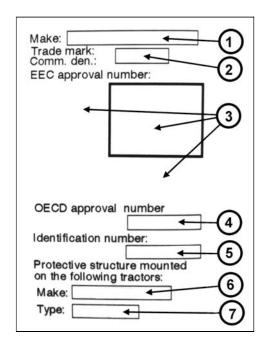


Cab version GL





Decal with the Type of safety frame.



- 1 Manufacturer of the protection structure
- 2 Denomination of the protection structure
- 3 EEC approval code
- 4 OCSE / OECD approval code
- (5) Identification number (serial number).
- (6) Tractor brand
- Variant/version

Meaning of OCSE / OECD codes:

- OECD/OCSE 6: The safety frame has passed the ROPS (Roll Over Protection Structure) tests for the front frame. The driver is protected if the machine overturns
- OECD/OCSE 7: The safety frame has passed the ROPS (Roll Over Protection Structure) tests for the rear frame. The driver is protected if the machine overturns
- OECD/OCSE 10: The safety frame has passed the FOPS (Falling Object Protective Structure) tests. The frame withstands falling objects with 1365 Joule energy level





- 1 Model
- 2 Identification number (serial number).

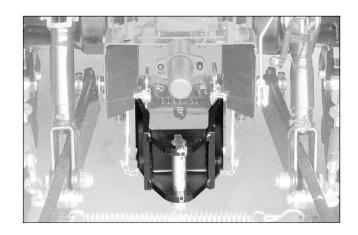
Towing attachments

Code punched on device:

- Make
- Type of device

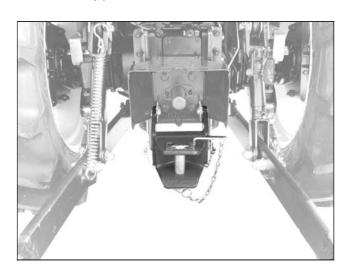
Type CUNA - Cat. C

Approval code DGM-GA 4689 C



CEE Cat.

Approval code e11-1574



Type BT01 EEC Class drawbar

Approval code e11*89/173*2006/96*2223



AFTER SALES

Warranty

Engine: conditions and terms established by the manufacturer

Tractor: within the terms laid down by our Certificate of Warranty.

Assistance

Contact the AUTHORIZED sales network



The Assistance Service provides specialized personnel able to work on our products. It is the only Service authorized to work on products covered by the warranty.

Use of Genuine Spare Parts and compliance with the scheduled servicing operations according to the prescribed frequency will preserve the qualities of the machine over time and will entitle you to the WARRANTY that covers the product throughout the established period.

Spares



To order spares: Contact our Spares Assistance centres with the following information: **model, series and serial number of the machine**, punched on the data plate.

DECLARATION OF CONFORMITY

Declaration of conformity are at the end of the manual.

SAFETY

SAFETY REGULATIONS



DANGER

There is no substitute for prudence to make your work safer and to prevent accidents.

The following recommendations are important for all users of our machines:



IMPORTANT

Failure to follow the regulations relieves our firm from all liability.



DANGER

Do not go downhill with the clutch disengaged or the gear shift in neutral. Use the engine to brake the machine. If you find you are using the brake a lot when going downhill, shift to a lower gear.



DANGER

Check to make sure that all revolving parts on the machines (PTO, cardan couplings, pulleys etc.) are fully guarded.



DANGER

Do not wear loose clothing, jewelry, neck chains or bracelets and take care if your hair is very long as it could become caught up in parts of the machine and implements.



DANGER

Do not leave the engine running in an closed room: the exhaust fumes are poisonous.



DANGER

Do not leave the machine with engine running near flammable substances.



DANGER

After any maintenance work, grease and remove the grease from the engine to prevent the risk of a fire.



DANGER

Keep hands and other parts of the body away from holes or leaks in the hydraulic system: the hydrualic fluid that spurts from the leak is under pressure and can cause serious injuries.



DANGER

Do not carry persons or equipment on the tractor beyond the number allowed by the Certificate of Approval or provided as standard equipment.



DANGER

Do not get on or off the machine while it is moving.



WARNING

Do not tamper with the machine or the implements in any way.



WARNING

Before starting the engine make sure that the gear shift and the PTO are in neutral.



WARNING

Engage the clutch gradually to prevent the machine from suddenly moving off or pitching up at the front.



WARNING

Do not service, repair or make any kind of adjustment to the tractor or to the implements hitched to it without having first turned off the engine, removed the ignition key and lowered the implement to the ground.



WARNING

Lower the mounted implements to the ground before leaving the tractor.



WARNING

Always park the tractor so that its stability is guaranteed by applying the parking brake and engaging a gear (1st gear uphill abd reverse downhill)and

applying the parking brake. Use a chock for greater safety.



WARNING

Before driving the machine, check to be sure that there are no bystanders or animals within its range of action.



WARNING

Do not leave the machine unattended with the engine running and/or the key in the ignition.



WARNING

Whenever the PTO is not in use, the drive shaft must be covered by the special guard.



WARNING

The operator must check to make sure that all parts of the tractor, especially the safety devices, are in a good working condition and that they always comform to the purpose for which they were designed. They should be kept in a perfectly efficient condition. If you note any defects or faults, fix or repair them in good time. If necessary contact your nearest Assistance Centre.



IMPORTANT

Follow the traffic code when driving on the roads.



IMPORTANT

Check the nuts and bolts of the wheels and safety frame from time to time, always with the engine shut off.



IMPORTANT

Do not use the differential lock near or in bends and avoid using it in fast gears or with engine running at a high rate.



IMPORTANT

Avoid tight steering angles when towed implements are mounted and the drive shaft is under strain since the coupling could be damaged.



IMPORTANT

Do not use the power lift's third-point as a towing hitch.



IMPORTANT

Adjust the hitch to its lowest possible positions to prevent the machine from pitching up at the front.



IMPORTANT

Keep the chains taut and the power lift raised when driving the machine with implements coupled to the three-point linkage.



IMPORTANT

Only use the front tow hook for towing the machine in an emergency.



DANGER

Do not drink fuels / lubricants / fluids. If these substances accidentally splash into the eyes, thoroughly rinse the affected part with plenty of water.



WARNING

Lengthy or repeated contact of the skin with fuels / lubricants / fluids should be avoided as skin disorders or other damage could ensue.



WARNING

Only use the tractor with towed and/or mounted implements or with the trailer, after having read and carefully complied with the instructions in the relative operation and maintenance manuals.

SAFETY OPERATIONS

Training

- Read the instructions carefully.Become familiar with the controls and how to correctly use the machine.
- Never ever allow children or persons who are unfamiliar with these instructions to use the machine.Local regulations can restrict the age of the operator.
- Never operate the machine while people, especially children, or animals are nearby.
- Remember that the operator or the user is responsible for any accidents or risks to which third parties or their property may be subjected.
- . Do not carry passengers.

All drivers should seek and obtain professional and practical instructions. Such instructions should emphasize:

- the need for care and concentration when working with ride-on machines;
- control of a machine sliding on a slope will not be regained by applying the brake;

The main reasons for loss of control are:

- insufficient wheel grip:
- driving too fast;
- inadequate braking;
- the type of machine is unsuitable for its task;
- lack of awareness of the effect of ground conditions, especially slopes;
- incorrect hitching and load distribution.

Preparation

- Check the machine with care before starting up each time
- The decals affixed to the machine provide important information: it is in the interests of your safety to comply with these indications.
- Make sure that the safety decals are in a good condition. If the decals are damaged or illegible, they must be replaced with other originals obtained from the manufacturer and affixed in the positions indicated in the operation and maintenance manual.
- Arbitrary modifications to this machine will relieve the manufacturer from all liability for resulting damage or injuries to the operators, to third parties and to things.
- The manufacturer cannot make provisions for every rreasonably foreseeable improper use able to lead to a potential danger.
- Always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used.
- WARNING-Fuel is highly flammable.
- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only and do not smoke while refueling.
 - To avoid the risk of the machine catching fire, periodically check the fuel pipe and replace it if it appears to be damaged to an extent that could impair its tightness.

- Refuel before starting the engine.
 Never remove the plug of the fuel tank or add fuel while the engine is running or hot.
- If fuel is spillt, do not attempt to start the engine but move the machine away from the place of spillage and avoid creating any source of ignition until fuel vapors have dissipated.
- Securely tighten the plugs on the tank and containers.
- Replace faulty silencers.
- Clean all foreign materials from the machine (dirt, tools, objects in general) that could impair the way it operates or injure the operator.

Operation

- Do not operate the engine in a confined space where dangerous monoxide fumes can collect.
- Only operate in daylight or in good artificial light.
- Before attempting to start the engine, disengage all the PTOs, shift the gear to the neutral position and fully depress the clutch lever.
- If you must cross a steep slope, consult section: Danger of tipping over.

Remember that there is no such thing as a safe slope. Driving up and down grassy slopes requires particular care. To avoid overturning:

- do not stop or start suddenly when driving on slopes;
- engage the clutch slowly. Always keep the gear engaged, especially when traveling downhill;
- maintain a low speed on slopes and around tight turns;

- stay alert for humps and hollows and other hidden hazards;
- take the greatest care when working across the face of a slope.

Take care when pulling loads or using heavy implements:

- use only approved drawbar hitch points;
- limit loads to those you can safely control;
- do not turn sharply.
- take care when reversing;
- use counterweights or wheel ballast to increase the stability.
- Watch out for traffic when crossing or driving alongside roads.
- Never unload material in the direction of bystanders or allow anyone near the machine while it is operating.
- Never operate the machine with defective guards or without the protective safety devices in their correct positions.
- Do not change the engine governor settings or over-rev the engine. Operating the engine at an excessive speed can increase the hazard of personal injury.

Before leaving the operator's position:

- disengage the drive to any attachments and lower them;
- change into neutral and lock the parking brake;
- stop the engine and remove the key.

Disengage the drive to the implements, stop the engine and remove the ignition key:

- before clearing blockages;
- before checking, cleaning, or working on the machine;
- after striking a foreign object. Inspect the machine for damage and make repairs before restarting and using implements;
- if the machine starts to vibrate

abnormally (check immediately).

 Disengage the drive to implements when transporting or not in use.

Switch off the engine and disengage the drive to the implement:

- before refueling;
- before making height adjustment unless the adjustment can be made from the operator's position.
- Reduce the throttle setting when slowing and, if the engine is equipped with a shut-off valve, turn the fuel off at the end of the operations.
- Read, understand and follow all the instructions in the manual and on the machine before starting.
- Inspect the machine before each job. For safety reasons, replace or repair damaged, very worn or missing parts. Make the necessary adjustments before you start work.
- Make sure that all drives are in neutral and that the parking brake is engaged before starting the engine. Only start the engine from the operator's position.
- Check brake action before you operate. Adjust or service the brakes as necessary.
- Stop machine if anyone enters the area in which you are working.
- Never leave the machine unattended when it is running.
- Take care when approaching blind corners, shrubs, trees and other objects that may impair the visibility.
- Only use the accessories and implements recommended by the manufacturer of the machine. Keep the safety decals visible when accessories

- or implements are fitted. Make sure that you have fully read the Instruction Manual of that accessory and/or of that implement and comply with the relative safety instructions.
- Do not use the machine if you are under the influence of medicines, alcohol or drugs.
- Before beginning to use the machine, check to make sure that the operator presence controls function correctly. Check the safety systems. Do not begin work unless they function correctly.
- Do not wear headphones to listen to music or the radio. Safe service and operation requires your full attention.

Maintenance and Storage

- Keep all nuts, bolts and screws perfectly tightened so as to be sure that the machinery operates in safe conditions.
- Never store the equipment with fuel in the tank inside a building where fumes could reach an open flame or spark.
- Allow the engine to cool before storing the machine in a closed place.
- To reduce the risk of fire, keep the engine, silencer, battery compartment and fuel storage area free of grass, leaves, or excessive grease.
- For safety reasons, replace worn or damaged parts.
- If the fuel tank has to be drained, this should be done outdoors.
- When machine is to be parked, stored or left unattended, lower the attachment unless a positive mechanical lock in used.
- Never leave the machine unattended when it is running.

Parking Safely rules

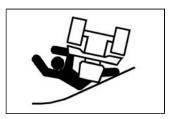
- Stop the machine on level ground, not on a slope.
- Disengage PTO and stop the implements.
- Lower implements to the ground.
- Lock the parking brake.
- Turn off the engine.
- · Remove the key.
- Wait until the engine and all moving parts have stopped before you leave the operator's station.
- Close the fuel shut-off valve if the machine is equipped with this component.

Do not pick up Passengers on board



- Only one operator is allowed to work on the machine. Do not carry passengers.
- Passengers on the machine or on the implement may be struck by foreign objects or be thrown off the machine, causing serious injury.
- Passengers obstruct the operator's view, resulting in the machine being operated in an unsafe manner.

Avoid Tipping



- Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or even death. All operations that take place on sloping ground require extra caution.
- Be aware that mechanical front wheel drive (MFWD) can improve access to dangerously sloping terrain, thereby increasing the possibility of overturning.
- Drive up and down hills, never across them.
- Watch out for holes, ruts, bumps, rocks or other hidden objects. Uneven terrain could cause the machine to overturn. Tall grass can hide obstacles.
- Take the utmost care on wet grass. Tires may lose their grip on slopes even though the brakes are functioning properly.
- Choose a low ground speed so you will not have to stop or shift gear on the slope.
- Always keep the gear engaged when going down slopes. Never coast downhill with the machine in neutral.
- Avoid starting, stopping or turning on slopes. If the tires lose their grip, disengage the PTO and proceed slowly, straight down the slope.
- Keep all movement on slopes slow and gradual. To not make sudden changes in speed or direction as this could cause the machine to tip over.

- Do not use the machine near ravines, ditches, embankments or bodies of water. The machine could suddenly tip over if a wheel goes over the edge or the edge caves in. Allow for a safety area between the machine and any hazard.
- The risk of tipping over increases to a considerable extent if the tires have been regulated with a narrow track width and the machine is driven at high speed.
- Comply with the manufacturer's recommendations for wheel weights or counterweights, which can increase stability when work is carried out on slopes or when front or rear-mounted implements are used. Remove the weights when they are not required.



WARNING

This list is not exhaustive.

Do not use the tractor if overturning hazards exists.

Towing Loads Safety rules

- The stopping distance increases with speed and the weight of a towed load. Drive slowly and allow extra time and distance for stopping.
- The total towed weight must not exceed the combined weight of the tractor, ballast and operator. Use counterweights or wheel weights as described in the instruction manual of the implement or tractor.
- Towing of an excessively heavy load can cause loss of traction and loss of control on slopes. Reduce the towed weight when working on slopes.
- Never carry children or other persons in or on towed implements.
- Only use approved hitches. Only tow with a machine equipped with a hitch designed for towing. Only attach towed equipment to the approved hitch point.
- If you are unable to back up a slope with a towed load, it means that the slope is too steep to work on with the towed load. Reduce the towed load or do not operate.
- Do not turn sharply. Use additional caution when turning or operating under adverse surface conditions. Take care when reversing.
- Never coast downhill with the machine in neutral.
- Keep well away from the zone between the tractor and the towed vehicle.

Keep a distance from the driveline shaft in motion



- Entanglement in rotating driveline can cause serious injury or death.
- Wear close fitting clothing.
- Stop the engine and make sure that the PTO driveline has stopped before going near the PTO shaft.

Safety measures for use of the front loader

- Keep well away from the operating and danger zone when working with the front loader. Bystanders must be kept well clear of the operating area.
 - Only work if the operating zone is visible. Use lights to illuminate the operating zone if necessary.
- The supplied version of the front loader must not be used as an aerial platform.
 Further safety devices are required if the front loader is to be used as an aerial platform.
- Only handle items like rotobales or pallets with the front loader is this is fitted with the necessary equipment.
 If there is a danger of falling objects, the front loader can only be used if the driving seat is protected by a suitable roof.
- High risk of overturning with the front loader raised. The efficiency of the rear brakes may be impaired. Adapt your driving technique and weight the tractor sufficiently at the rear. Fit weights on the wheels and fill them with water if necessary.
- Keep a sufficient distance away from high voltage wires.
- Bring the loader to the transport position and lock it when driving on the roads.
 - Comply with the maximum front overhang parameter. If the overall dimensions of the vehicle with the implement hitched exceeds 3.5 m, road traffic safety must be guaranteed by further measures.
 - It is forbidden to use the front loader for transporting implements and material on the public roads.
- Risk of the front loader lowering

accidentally. For this reason, you must lock the valves once you have finished work.

Lower the front loader to the ground before leaving the tractor.

- For safety reason, the front loader must only be assembled and disassembled by one person, the driver himself.
- Always keep well away from the moving parts of the front loader.
- Only disassemble a front loader with an implement hitched (loading shovel, fork) on a solid, flat surface.
- Store and lock the front loader so that unauthorized person, such as children for example, are unable to tip it over.
- Connect all the hydraulic hose pipes, including the hydraulic return, when the front loader is assembled.
- Maintenance work (greasing) when the loader is hitched to the tractor, must only be performed with the loader in the lowered position.
- Risk of accidents caused by the height of the raised loader, when passing under underpasses, bridges, etc.
- Always adapt your speed of movement to the driving conditions.
- It is strictly forbidden to transport persons.

Front loader servicing instructions

- Lower the loader to the ground, turn off the engine and remove the ignition key before performing servicing provided.
- If the fall protection device has tripped, rest the load before repairing and allow the hydraulic cylinders to slowly retract.
- The hose pipes age. Periodically check the hose pipes of the hydraulic circuit and replace them with original spares before they become too damaged.
- Retighten all the bolts and nuts after a short drive and check them periodically to make sure that they have not worked loose.
- Adjust the eccentric pin that fastens the front loader if necessary.

Checking Wheel Hardware

- A serious accident could occur causing serious injury unless the wheel hardware is securely tightened.
- Check the tightness of the wheel hardware often during the first 100 hours of operation.
- The wheel hardware must be tightened to the specified torque value using the correct procedure whenever it works loose.

Safety measures for maintenance



- The only authorized interventions are the ones described in the MAINTENANCE chapter. All other interventions must be carried out by the technicians of workshops authorized. Your dealer will be able to provide information about your nearest authorized servicing center.
- Routine servicing of the machine may only be carried out by qualified and trained adults. Fully familiar with the procedure before performing servicing work.
- Do not operate the machine in a confined space where dangerous monoxide fumes can collect.
- Keep all nuts, bolts and screws perfectly tightened so as to be sure that the machinery operates in safe conditions.
- Never ever tamper with the safety devices. Check them regularly to make sure that they function properly.
- Prevent grass, leaves and other debris from building up on the machine. Clean up spilt oil or fuel and remove any fuelsoaked debris. Allow the machine to cool before storing.
- Never make adjustments or repairs with the engine running. Wait for all movement in the machine to stop before making adjustments, cleaning or repairing.
- Check brake operation frequently. Have the brakes adjusted and serviced by an authorized

workshop when required.

- Replace the safety instruction decals if damaged.
- Keep hands, feet, clothing, jewelry and long hair well away from moving parts and control levers to prevent them from getting caught.
- Lower any implements to the ground before cleaning or servicing the machine. Disengage all electric power sources and stop the engine. Lock the packing brake and remove the key. Allow the machine to cool.
- Securely support any machine components that must be raised for service work. Use stands or lock service latches to support the components when needed.
- Disconnect the battery before making any repairs. First disconnect the negative terminal and then the positive one. First install the positive terminal and then the negative one.
- Before servicing the machine or implement, carefully relieve the pressure from all components with stored energy, such as hydraulic components or springs.
- Relieve the hydraulic pressure by lowering the implement or cutting equipment to the ground or to the mechanical stop point and move the hydraulic control levers back and forth.
- Keep all parts in a good condition and properly installed. Repair all damage immediately. Replace worn or broken parts.
- Charge the batteries in an open, wellventilated area, well away from sparks. Unplug the battery charger before connecting or disconnecting it to or from the battery. Wear protective clothing and use insulated tools.

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- The following equipment is required:
 - safety goggles or safety glasses with side shields
 - a hard hat when working with the machine
 - protective gloves (in neoprene for chemical products, in leather for heavyduty work)
 - protective ear muffs or ear plugs
 - respirator or filtering mask
 - close fitting, waterproof clothing
 - reflecting garments
 - safety footwear

Beware of high pressure fluids



- Hydaulic hoses and lines can fail due to physical danage, kinks, age and exposure. Check the hoses and lines regularly. Replaced damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check the connections regularly. Tighten any loose connections.
- Escaping fluid under pressure can penetrate the skin, causing serious injury. Avoid this hazard by relieving the pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- Seek medical help immediately if an accident occurs. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Physicians who are unfamiliar with this type of injury should refer to a reliable medical source.

Fire prevention

- Remove grass and debris from the engine compartment and silencer area before and after using the machine.
- Always shut off the fuel valve, if installed, when the machine is stored or transported.
- Do not park the machine near an open flame or source of ignition, such as a water heater or a boiler.
- Frequently check the fuel lines, the tank, plugs and fittings for cracks or leaks. Replace them if necessary
- Never store the machine with fuel in the tank inside a building where fumes could reach an open flame or spark.
- Allow the engine to cool before storing the machine in a closed place.

Tire safety measures



Explosive separation of a part of tire and rim can cause serious injury or death:

- Never attempt to mount a tire without the proper equipment and experience to perform the job.
- Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. Heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand on one side and NOT in front of or over the tire assembly.
- Check tires for low pressure, cuts, blisters, damaged rims or missing lug bolts and nuts.

Handling fuel safely measures





To avoid personal injury or property damage, use extreme care in handling fuel. Fuel is extremely flammable and fuel vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved non-metal, portable fuel containers. If using a funnel, make sure it is plastic and has no screen or filter.
- Never remove the fuel tank cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never add fuel to or drain fuel from the machine indoors. Move machine outdoors and provide adequate ventilation.
- Clean up spilled fuel immediately. If fuel is spilled on clothing, change clothing immediately. If fuel is spilled near machine, do not attempt to start the engine but move the machine away from the area of spillage. Avoid creating any source of ignition until fuel vapors have dissipated.
- Never store the machine or fuel container where there is an open flame, spark. or pilot light such as on a water heater or other appliance.
- Prevent fire and explosion caused by static electric discharge. Static electric discharge can ignite fuel vapors in an ungrounded fuel container.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic

liner. Always place containers on the ground away from your vehicle before fueling.

- Remove fuel-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a fuel dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete.
 Do not use a nozzle lock-open device.
- Never overfill fuel tank. Replace fuel tank cap and tighten securely.
- Replace all fuel container caps securely after use.
- For gasoline engines, do not use gas with methanol.

Methanol is harmful to your health and to the environment.

ECOLOGY



It is of fundamental importance to safeguard the environment. Incorrect waste disposal can alter the environment and the ecological system.



Do not discard fluids like fuels, lubricants, coolants or other, in the environment.



Do not use food or dink containers, which could lead to mistakes, to drain off fluids like fuels, lubricants, coolants or other.



Do not dispose of parts of the cooling system (such as radiators, fluids, tanks, etc.) in the environment.



Contact an authorized organization or ask your dealer for advice about how to recycle or dispose of waste products in the correct way.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.

Disposal waste product and chemicals

Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- Never ever use beverage containers for waste fluids: someone may drink from them.
- Contact your local Recycling Center or authorized dealer for information about how to recycle or dispose of waste products.
- Use oil must be collected and must not be dispersed in the environment since, in accordance with the current laws, it is classified as dangerous waste and as such, must be taken to an authorized collection center.

JOBS IN FORESTRY

Dangers

The major dangers when using the machine for forestry work are:



DANGER

Take great care of falling trees and branches if a log crane is mounted on the rear part of the tractor.



DANGER

Take great care if a winch is mounted on the rear part of the tractor as trees could enter the space where the drivers sits.

Roll bar version



WARNING:

On machines equipped with safety frames, there are no places on which protections able to safeguard against the dangers of forestry work can be fitted.

The safety structures originally installed on the machines are not certified as F.O.P.S.



WARNING:

The machine is not suitable for forestry work as it is without a safety structure able to sufficiently protect the operator from the risks indicated above.

Jobs requiring a certain level of protection need further measures of protection.

GL10 cab version

This protection is certified as F.O.P.S. accordance with the requirements of the OECD Code no. 10



WARNING:

On machines equipped with cab, there are no fixing pionts for protective structures designed to protect operators (OPS) as defined by ISO 8084:2003.



WARNING:

The machine is not suitable for forestry work as it is without a safety structure able to sufficiently protect the operator from the risks indicated above.



WARNING:

definite protection against dangers deriving from use of the machine for forestry work is not provided

Jobs requiring a certain level of protection need further measures of protection.

WORK WITH CROP SPRAYERS (RISK OF HAZARDOUS SUBSTANCES)

Roll bar version

The version of the machine with the folding safety frame does not provide any protection against entrance of dangerous substances. Jobs requiring a certain level of protection need further measures of protection.



WARNING:

Both towed and mounted crop sprayers can be used but to reduce the risk of intoxication, it is obligatory to use Personal Protective Equipment WARNING:



It is obligatory to use Personal Protective Equipment regardless of the chemicals used.

Cab version

The cab of this tractor corresponds to Class 1 as a specified by EN 15695-1:2009 and does not provide protection against hazardous substances.

The tractor fitted with such a cab shall not be used under conditions requiring protection against hazardous substances.

The information of the PPP manufacturer (given on the label) shall be followed.

SAFETY DEVICES

Safety frame

The term protection frame is commonly understood to mean the device that protects the user if the machine overturns. This term therefore refers to both the cab and the roll bar.

Depending on the versions, agricultural tractors and self-propelled machines can be fitted with one of the two types of protection frame



WARNING

The roll bar must be kept in the vertical position during work.

There are no conditions of work for which the roll bar is allowed to remain in the lowered position.



WARNING

When in the horizontal position, the safety frame will provide no protection if the tractor tips up.



WARNING

Make sure that the roll bar is in the correct position before starting the engine.

Power lift lock





Series 3000

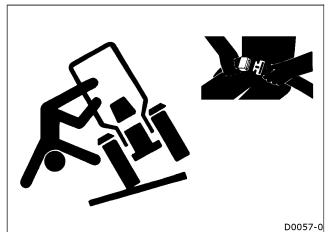
Series Energy



IMPORTANT

Fully screw-in the adjuster to lock the implement in both the raised and lowered position. This provides a safety function when implements are transported on the roads.

Safety belts





♠ DANGER

Wear the safety belts when you use the machine with the safety frame (roll-bar or ROPS) to reduce the risk of accidents if the tractor tips up.

↑ DANGER

Do not wear the seat belt if you use the machine with the roll-bar in the horizontal position.

SAFETY DECALS

^

DANGER

Safety decals have been affixed to various parts of the machine. They indicate potential dangers.



IMPORTANT

The decals must be kept clean and legible. If damaged, they must be replaced.



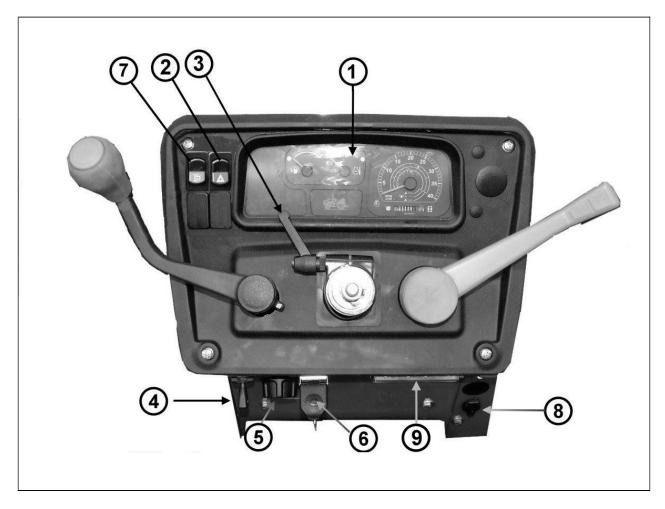
IMPORTANT

Some of the machine components can be equipped with the manufacturer's specific safety decals.

OPERATING INSTRUCTIONS

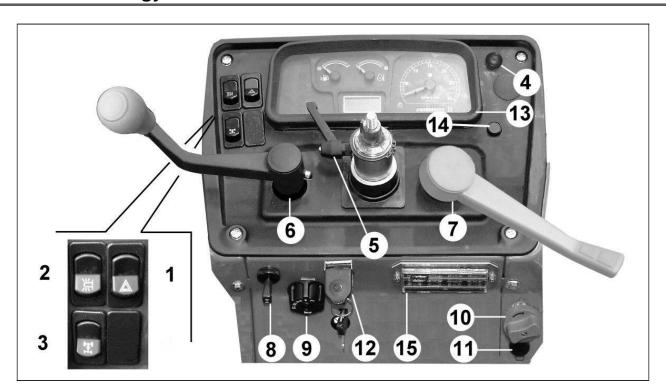
CONTROLS AND INSTRUMENTS

Dashboard - series 3000 STAR - Energy 60



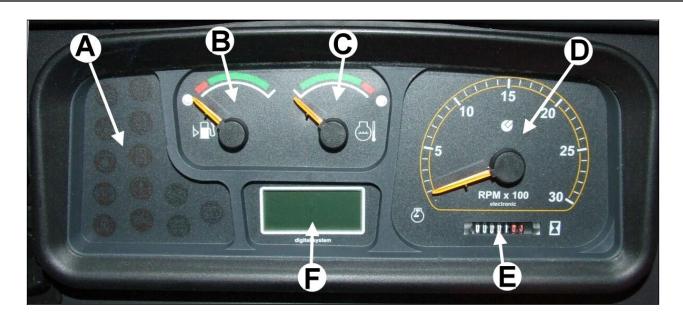
- Multifunction analog instrument
- Emergency lights switch
- Steering wheel height adjuster lever
- 1234 56789 Turn indicator Flashing headlights.
- Light switch and horn
- Ignition switch
- Revolving beacon switch
- 1-pin socket 12V
- Fuse box Energy 60

Dashboard - Energy 80



- 1 Emergency lights switch
- 2 Revolving beacon switch
- (3) Front drive control button.
- 4 Button to change display / reset.
- 5 Steering wheel height adjuster lever
- 6 Reverse shuttle lever / Dual Power: forward, reverse selection / slow, fast.
- (7) Hand throttle.
- 8 Turn indicator Flashing headlights.
- Light switch and horn
- Front power take-off (optional)
- 11 1-pin socket 12V
- 12 Ignition switch
- Multifunction digital instrument
- PTO clutch engaged indicator red.
- 15 Fuse box

Multifunction instrument



Multifunction instrument indicators



- + Battery charge indicator red.
- Engine warm-up indicator yellow.
- Clogged engine air filter indicator red.
- PTO clutch disengaged indicator red.
- Front drive engaged indicator yellow.
- (P) Hand brake engaged indicator red.
- Clogged oil filter indicator red.
- ⇔ Tractor direction indicators green.
- Clogged oil filter indicator red.

- Safety frame lowered indicator red.
- Trailer direction indicators green.
- Driving beam indicator blue.

Fuel level gauge



The green section shows how much fuel there is in the tank. The yellow fuel reserve light comes on when the lindicators light up in the red section.

Engine coolant temperature indicator



Excessively hot engine coolant is indicated by:

- Graduated scale with red full-scale.
- Red engine coolant temperature indicator.



WARNING

Immediately stop the engine if these indicators come on.

Carry out the following operations:

• Check the level of the cooling fluid.

1

WARNING

Never open the radiator's expansion tank whilst the engine is hot since the cooling fluid could cause burns as it is under pressure and very hot.

Clean the radiator core.

Engine RPM indicator



The engine rate is displayed on the graduated scale on the outside of the instrument.

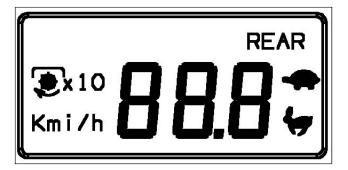
Total hour counter



The hour counter is situated in the lower part of the indicators. The work hours totalized by the machine are displayed.

Multifunction digital instrument





The tractor has a dashboard with a digital function that gives the following values:

- Speed of the tractor (kph)
- Rear PTO rate (rpm)

Select button (4) change display / reset (with the tractor running) to read the value of the required function:

- kph function on: the display indicates the speed of the tractor.
- REAR function on, two indications may be given:
 - REAR function and on: the display indicates the slow speed of the rear PTO (540)
 - 2. **REAR** function and on: the display indicates the fast speed of the PTO (540E / 1000)

Digital dashboard calibration



The calibration code appears for a few seconds whenever the tractor starts up.

The calibration code reset when the battery wires are disconnected. To operate in the correct way, the digital dashboard must be calibrated with a code, as given in the table. This code varies depending on the tyres and type of PTO used:

Proceed as described in the following points to calibrate:

- Keep button 4 depressed and turn the ignition key until the dashboard lights up. The word SET will appear when button 4 is released.
- 2. Press button **4** again until the first of the three values given starts to flash.
- 3. Press button **4** again to scroll the first value required.
- 4. Keep button **4** depressed to memorize and go on to the next value.
- 5. Repeat points 3 and 4 to memorize the second and third value also.
- After having memorized the three values, press button 4 until the kph (1) or mi/h (2) indication appears.
- Release and then press button 4 again until the word OFF appear. Calibration is now terminated.

Table of digital instrument regulation



Energy 80

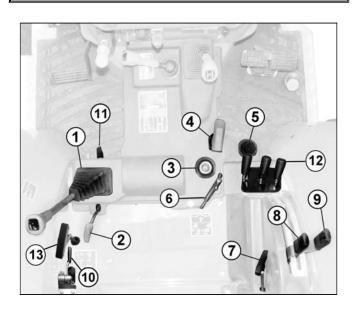
	PTO 540/540E
Tyres	
320/70-R24" 240/70-R16"	121
360/70-R20" 11.0/65-R12"	114
360/70-R24" 260/70-R16"	122
41/14.00-20" 27/8.50-15"	110

Controls in front part



- 1) Steering wheel.
- (2) Hand throttle.
- 3 Reverse shuttle lever / Dual Power: forward, reverse selection / slow, fast.
- (4) Rear PTO clutch lever.
- 5 Clutch pedal.
- 6 GEARSHIFT MODE selector lever: Dual Power 16+8 / reverse shuttle 8+8.
- (7) Gear select lever (1st-2nd-3rd-4th)
- 8 Accelerator pedal.
- (9) Left brake pedal.
- 10 Brake pedal latch.
- Right brake pedal.

Controls in rear part



- 1 Speed range select lever (🐧 💝 🖫)
- 2 Lever for selecting the independent or synchronized rear PTO.

Energy 60 Energy 80

- 3 Gearbox casing oil filler plug and level
- 4 Parking brake lever
- 5 Rear differential lock button
- 6 Lift speed regulating and locking knob
- 7 PTO speed selector lever
- 8 Lever for the rear power lift's draft control.
- (9) Rear power lift position control lever.
- Front drive control lever. 3050 3080
- Lever for selecting the independent or synchronized rear PTO.

3050 3080

- Rear supplementary spool valve lever
- 13 Front drive control lever. Energy 60

Seat controls



DANGER

Do not get on or off the machine while it is moving.



DANGER

This adjustment must be carried out when the machine is at a standstill, with the engine off and the parking brake engaged.



- 1 Distance of seat from controls.
- Seat height adjustment.
- 3 Adjustment of springs.
- 4 Seat suspension adjuster lever



Effective weighted acceleration values measured in accordance with directive 78/64/EEC and successive amendments

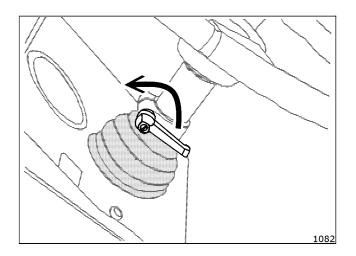
Type	Y01-B01	
Type-approval N°	e2 075	
Weight applied	Corrected Weighted	
to the seat	vibration acceleration	
Kg	awS	
60	0.74 m/s ²	

Steering wheel



DANGER

This adjustment must be carried out when the machine is at a standstill, with the engine off and the parking brake engaged.



The steering wheel can be adjusted in height. Using the lever:

- Release the safety retainer.
- Adjust the height.
- Lock the safety retainer.

STARTING AND STOPPING THE ENGINE

Before starting the engine



WARNING

Before starting the engine make sure that the gear shift and the PTO are in neutral.



(P) Apply the parking brake.



Move the gearshift lever to the idle position.



Move the **final drive** lever to the neutral position.



Move the lever used to select the independent or synchronized rear PTO to the neutral position.



Move the lever used to select the PTO speed to the neutral position.



Depress the clutch pedal.

The safety device "Push And Start "will prevent the engine from starting unless the clutch pedal is fully depressed.

How to start the engine



See engine's operation and maintenance manual.

Ignition switch



 Insert the key and turn it as described below:

Position (STOP)



No circuit powered.

Position (00



Glow plug preheating. Keep the key in this position for 8-10 seconds.

For machines equipped with glow plug preheater indicator: wait until the indicator light goes out.

Position ()



Depress and turn the key. Engine starts.

Each starting attempt should last for just a few seconds.

Do not make consecutive attempts to start the engine without having waited at least 20 sec. between one attempt and the next, otherwise the battery will quickly run down and the starter motor could be damaged.



WARNING

Do not keep operating the starter motor when the engine has already started.

Damage to the starter motor due to failure to comply with these instructions will not be covered by the warranty.

After the engine has started:

- Release the key. It will automatically return to the operating position
- Release the clutch pedal
- Check the warning lights and instruments

How to stop the engine



WARNING

The steering action of the power steering system will be reduced if the engine accidentally stops. Depress the main brake to allow the machine to come to a full stop.



WARNING

Do not leave the tractor unattended with the ignition key inserted.

• Allow the engine to idle.



Depress the clutch pedal.

Move the **final drive** lever to the neutral position.

Move the lever used to select the independent or synchronized rear PTO to the neutral position.

Move the lever used to select the PTO speed to the neutral position.

(P) Apply the parking brake.

- Turn the ignition key to position STOP.
- Remove the key and put it away in a safe place.

HOW TO START AND STOP THE MACHINE

How to start the machine



DANGER

The machine could respond in a dangerous way if the clutch pedal is suddenly released.



WARNING

Engage the clutch gradually to prevent the machine from suddenly moving off or pitching up at the front.



WARNING

Make sure that the brakes are efficient before moving off.



IMPORTANT

Before starting the machine, make sure you become familiar with its main controls: brakes, transmission, PTO, diff lock and how to stop the engine.



IMPORTANT

Lengthy clutch disengagements could wear out the thrust bearing.



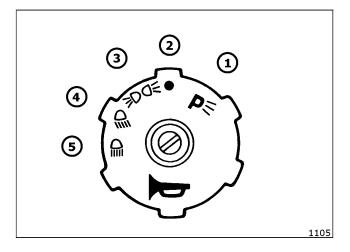
Depress the clutch pedal.

- Select the transmission ratio (consult the Gearbox chapter).
- (P) Disengage the parking brake.



• Gradually accelerate the engine.

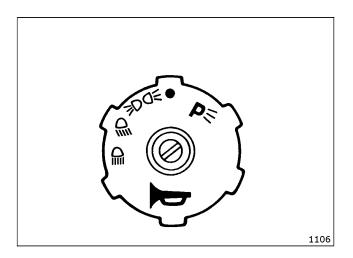
Light switch



- Turn the control to the required position:
- ① Parking lights. P
- 2 Lights off OFF
- ③ Side lights. [⇒]
 €
- 4 Dipped beams.

 Dipped beams.
- ⑤ Driving beams. ≣○

Horn



Press the control.

Turn indicator



Move the switch to the right to indicate that you are turning towards the right.

Move the switch to the left to indicate that you are turning towards the left.

The following symbols will light up:

- Machine's turn indicator light (green).
- Buzzer.

Move the switch back to the center once you have changed direction.

Flashing headlights



Push the switch down to flash the driving beams.

Lights

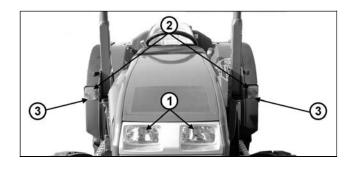


public highways, the headlights must If the tractor must be driven on the comply with the Highway Code regulations in force in the country of use.

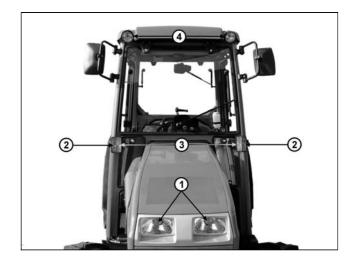


Use of driving beams is governed by the Highway Code in force in the country of use.

FRONT LIGHTS



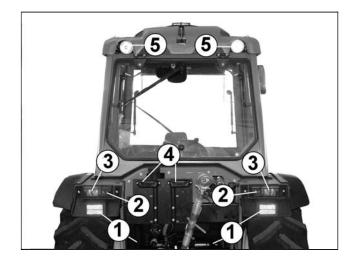
Cab version



- (1) Headlight in dipped/driving positions.
- 2 Front turn indicator.
- 3 Front side light.
- (4) Working beams

REAR LIGHTS

Cab version



- (1) Rear reflector
- (2) Rear brake light. Rear side light.
- (3) Rear turn indicator.
- 4 License plate light.
- (5) Working beams

Safety frame



DANGER

The machine is equipped with a folding safety frame. Always keep the safety frame assembled in the correct vertical position during work.



DANGER

Never ever modify the structural components of the safety frame by welding on additional parts, making holes, grinding, etc. Failure to comply with these instructions could impair the rigidity of the frame and reduce the level of protection provided by the original equipment.



WARNING

If the tractor tips up or the safety frame or cab are damaged (e.g. owing to a collision), all the damaged structural components must be replaced in order to guarantee the original degree of safety.



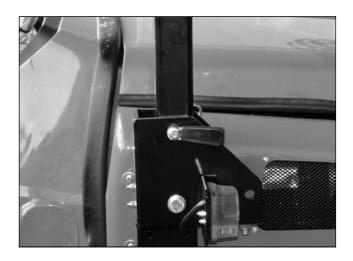
WARNING

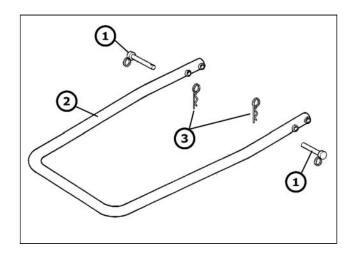
When in the horizontal position, the safety frame will provide no protection if the tractor tips up.



WARNING

Make sure that the roll bar is in the correct position before starting the engine.





- 1 Safety pin.
- Safety frame.
- 3 Safety pin.

To lower the safety frame, on both sides:

- Remove the safety pin.
- Remove the plug.
- Lower the safety frame
- Fit the plug into the second hole.
- Re-position the safety pin.

How to stop the machine

- Allow the engine to idle.
- 1
- Depress the clutch pedal.
- Use both the brake pedals.
- Stop the machine.
- Move the **final drive** lever to the neutral position.
- Move the gearshift lever to the idle position.
 - Remember to disengage the PTO if used.
- (P) Apply the parking brake.

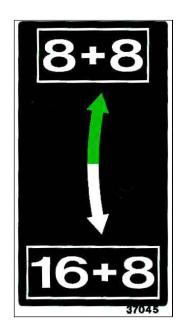
TRANSMISSION

Sélection de type de transmission



WARNING

The GEARSHIFT MODE lever must ALWAYS be used by depressing the clutch pedal and idling the engine with the wheels of the machine at a standstill.





The machine has a **Dual Power** transmission, which provides 2 different gearshift modes selected with the GEARSHIFT MODE lever.

Main clutch



WARNING

NEVER attempt to drive up or down slopes with the clutch disengaged.



IMPORTANT

Remove your foot from the clutch pedal when not required. Do not ride the clutch.



IMPORTANT

Lengthy clutch disengagements could wear out the thrust bearing.



Transmits drive from the engine to the transmission.

Pedal up = clutch engaged (drive is transmitted). Pedal down = clutch disengaged (drive not transmitted).

Gearbox

The machine's transmission comprises a gearbox, final drive and synchronized reverse shuttle, each controlled by its own lever.

The speed at which you drive the machine must be chosen to suit:

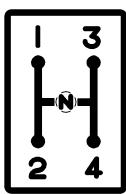
- The work required.
- The implement used.
- The type of ground.



Consult the TECHNICAL SPECIFICATIONS

Gearshift lever





The lever can be moved in four positions (plus neutral):

- 1 First speed gear.
- 2 Second speed gear.
- Neutral
- 3 Third speed gear.
- 4 Fourth speed gear.

The speed gear selections are synchronized. To shift gear:

- Depress the clutch pedal.
- Select the required range.
- Gradually release the clutch pedal.

Use the **FINAL DRIVE** command to select the **reverse gear.**



WARNING

Engagement of the reverse gear and/or the consequent engagement of the forward speed gear must ALWAYS be performed with the engine idling and with the wheels of the machine at a standstill.

Final drive lever





• DUAL POWER MODE (16-8 SPEEDS)

The lever can be moved in three positions (plus neutral):



Slow

Neutral

High speeds

Reverse speeds (REV)

Selection is not synchronized.

To shift gear:

- Stop the machine.
- Depress the clutch pedal.
- Select the required range.
- Gradually release the clutch pedal.

★ WARNING

Engagement of the reverse gear and/or the consequent engagement of the forward speed gear must ALWAYS be performed with the engine idling and with the wheels of the machine at a standstill.

• REVERSE SHUTTLE MODE (8+8 SPEEDS)

The lever has two positions (plus neutral):



Slow



Neutral



High speeds



Unit inhibited: cannot be selected Use the REVERSE SHUTTLE command to select the reverse

Selection is not synchronized.

To shift gear:

- Stop the machine.
- Depress the clutch pedal.
- Select the required range.
- Gradually release the clutch pedal.

W W

WARNING

Engagement of the reverse gear and/or the consequent engagement of the forward speed gear must ALWAYS be performed with the engine idling and with the wheels of the machine at a standstill.

Reverse shuttle lever/Dual Power: forward, reverse selection, slow, fast.





• REVERSE SHUTTLE MODE (8+8 SPEEDS)

The lever has two positions (plus neutral):







Forward Neutral Reverse

The speed gear selections are synchronized. Even though selection is synchronized, proceed as described below to select the forward or reverse speeds:

- Stop the machine.
- Depress the clutch pedal.
- Select the forward or reverse speed.
- Gradually release the clutch pedal.

In this operating mode, the lever (1) acquires the reverse shuttle function and provides:

reverse shuttle lever.

DUAL POWER MODE (16-8 SPEEDS)

The lever has two positions (plus neutral):







High speeds Neutral (Hare)

20% Dual Power reduction

The speed gear selections are synchronized. Proceed in the following way to select the forward speed or Dual Power function even when selection is synchronized:

- · Stop the machine.
- Depress the clutch pedal.
- Select the forward or reverse speed.
- Gradually release the clutch pedal.

In this operating mode, the lever 1 acquires the Dual Power function and provides:

16 forward speeds: 4 speed gears for 2 final drives (↑ - →) + Dual power lever that reduces the speed of each gear by 20%

8 reverse speeds: 4 speed gears for 1 final drive () + Dual power lever that reduces the speed of each gear by 20%



WARNING

Engagement of the reverse gear and/or the consequent engagement of the forward speed gear must ALWAYS be performed with the engine idling and with the wheels of the machine at a standstill.

The speed at which you drive the machine must be chosen to suit:

- The work required.
- The implement used.
- The type of ground.



Consult the **TECHNICAL SPECIFICATIONS**

Hand throttle



The throttle lever is located in the front right-hand side of the machine.

Increase or decrease the engine rate by gradually moving the lever.

Accelerator pedal



Accelerator pedal.

Front drive engaging control

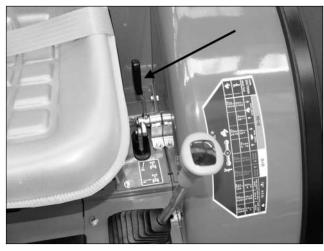


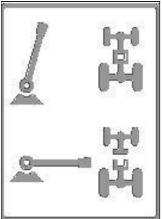
WARNING

The front drive must ALWAYS be engaged by depressing the clutch pedal and idling the engine with the wheels of the machine at a standstill.

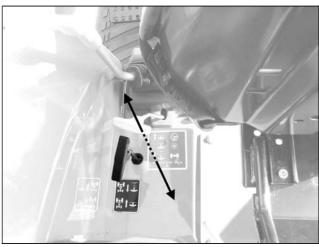
 Be aware that mechanical front wheel drive (MFWD) can improve access to dangerously sloped terrain, thereby increasing the possibility of a tipover.

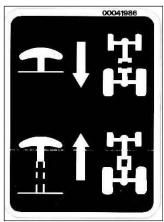
3050 3080





Energy 60





To engage the front drive

- Pull the lever up:
- The yellow light on the dashboard comes on to indicate that the front drive has been engaged.

Energy 80



To engage the front drive

- Press the button on the dashboard.
- The yellow light on the dashboard comes on to indicate that the front drive has been engaged.

Rear differential lock



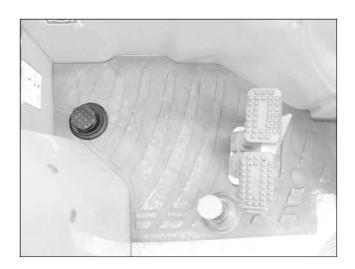
DANGER

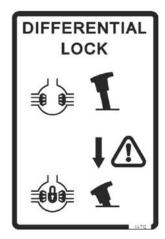
When the differential lock is engaged, the tractor cannot be steered.



IMPORTANT

Do not use the differential lock near or in bends and avoid using it in fast gears or with engine running at a high rate.





The tractor is equipped with a rear diff lock. Use recommended for ploughing work or if one of the two driving wheels possesses insufficient grip owing to muddy, rugged or slippery ground.

The diff lock is controlled mechanically with the pedal. It is disengaged by releasing the pedal.

To get the most out of the device, engage the differential lock before the wheels begin to slip. Do not engage the lock while one wheel is already slipping. If the diff lock fails to release, reduce the engine rate, stop the machine and release it by moving the steering wheel.

Front differential lock (NoSPIN)

The NoSPIN device is a differential lock that is installed inside the front axle.

When the machine is driven on a straight road, the front wheels are enbloc with each other and there is no differential effect.

When the machine turns and the wheels exceed an angle of about 15°, the outer wheel releases and turns faster to allow it to turn while the wheel on the inner side maintains its driving function.

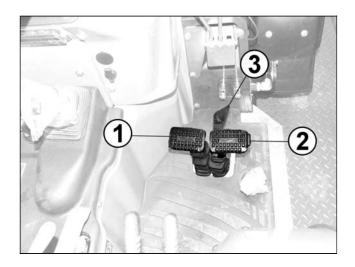
Disengagement of one of the wheels when the machine is turned may be preceded by a metallic noise due to the springs of the device as they release.



Consult the operation and maintenance manual of the **NoSPIN** device.

BRAKING SYSTEM

Main brake



- 1 Left brake pedal.
- Right brake pedal.
- 3 Brake pedal connecting pin.

WARNING
Make sure that the brakes are efficient before moving off.

Depress the brake pedal.

If the brake action becomes excessively spongy or the brakes reach end of travel:

- Do not start the machine.
- Immediately identify the cause and eliminate the defect.
- Immediately contact your nearest authorized workshop if you are unable to repair the defect.



Before driving on the roads, lock both the brake pedals with the pedal latch.

WARNING
NEVER drive on the roads with the pedals unlatched.



Do not keep your foot on the brake pedals when this is unnecessary.

The braking action of the machine is obtained by depressing the brake pedals

Each pedal controls the brake of each corresponding rear wheel separately.

Only use the brakes separately for farming work.



IMPORTANT

When the brake pedals are depressed in the 40 kph versions, the IST Simultaneous Front Drive Engagement system engages automatically and disengages when the brake pedals are released.

Parking brake



WARNING

before beginning to drive, make sure that the parking brake is disengaged and that the red indicator light on the instrument panel is off.

The parking brake is the disc type, totally independent and mechanically controlled with a lever.

To engage the parking brake:

- Fully depress the main brake pedals.
- Pull the lever up:
- The red light on the dashboard comes on to indicate that the brake has been engaged.



To disengage the parking brake:

- Turn the lever in the counter-clockwise direction.
- Completely lower the lever.
- The red light on the dashboard goes out to indicate that the brake has been disengaged.



POWER TAKE-OFF

Rear power take-off (PTO)



WARNING

when the PTO is not used, move the mode selector lever to the Neutral or Independent position (depending on the model or version). This prevents the shaft of the PTO and other spinning components from accidentally turning.



WARNING

Do not remove or damage the protective plate



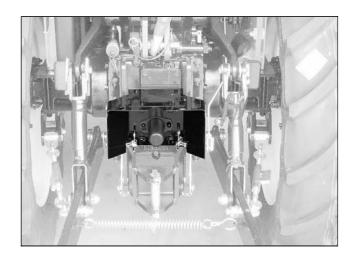
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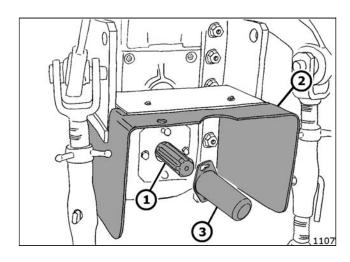
Whenever the PTO is not in use, the drive shaft must be covered by the special guard.



IMPORTANT

If implements that develop a high degree of inertia are connected to the PTO (such lawn mowers. as brushwood choppers, etc.), it is advisable to use a cardan-shaft transmission with "free wheel" device. This device prevents the implement from transmitting drive to the machine and allows it to stop as soon as the clutch is depressed.





- 1 Power take-off
- 2 Metal plate protection.
- 3 PTO shaft guard.

The tractor is equipped with a rear PTO that can operate in two ways:

- Independent.
- Synchronised. ⁸⁻⁸

Both can have two speeds:

- Slow. 540 rpm
- Fast. 540E (750 rpm)

Turning direction: clockwise (in synchronised mode, turning direction is clockwise with forward drive).

The PTO speed is shown on the display of the multifunction digital instrument on the dashboard.

Independent PTO



It does not depend on the ground speed of the machine and can be operated when this is either at a standstill or on the move.



WARNING

To prevent injuries:

the safety device will prevent the engine from starting when the PTO mode selector lever is in the Independent positione



DANGER

The machine could respond in a dangerous way if the clutch lever is suddenly released.



 Disengage the PTO clutch by pushing the lever down.









IMPORTANT

The red PTO disengaged indicator light on the multifunction dashboard instrument comes on whenever the PTO clutch is disengaged by means of the PTO clutch lever. Only remain in this position for the time strictly required to engage the clutch and release the lever as quickly as possible.



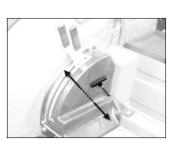
• The PTO mode selector lever must be in the **Independent** position.

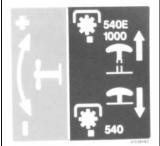






- Use the gearshift lever of the PTO to select the best rate.
- 540/540E (750 Rpm)







Engage the PTO clutch:
 pull to release the safety lock 1 of the clutch lever and pull the lever up
 2





 Having finished work, remember to move the PTO's mode selector lever back to the Neutral (Idle) position.

Independent PTO - serie 3000 STAR



It does not depend on the ground speed of the machine and can be operated when this is either at a standstill or on the move.



WARNING

To prevent injuries:

the safety device will prevent the engine from starting when the PTO mode selector lever is in the Independent positione



DANGER

The machine could respond in a dangerous way if the clutch lever is suddenly released.



 Disengage the PTO clutch by pulling the lever up







The red PTO disengaged indicator light on the multifunction dashboard instrument comes on whenever the PTO clutch is disengaged by means of the PTO clutch lever. Only remain in this position for the time strictly required to engage the clutch and release the lever as quickly as possible.



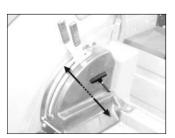
• The PTO mode selector lever must be in the **Independent** position.







- Use the gearshift lever of the PTO to select the best rate.
- 540/540E (750 Rpm)



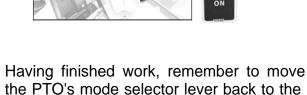




 Engage the PTO clutch: press on the button to release the lever and fully lower it

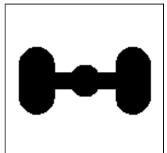


Neutral (Idle) position.



EN Inglese 56 OPERATING INSTRUCTIONS

Synchronized PTO



Synchronised with all gears.

This PTO is used for trailers with driving wheels.

Used in difficult operating conditions (steep slopes, muddy or slippery ground).



The machine could respond in a dangerous way if the clutch lever is suddenly released.



Do not use the synchronized power take-off near or round very tight bends.



 Disengage the PTO clutch by pushing the lever down.







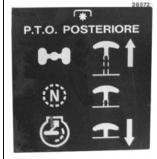
IMPORTANT

The red PTO disengaged indicator light on the multifunction dashboard instrument comes on whenever the PTO clutch is disengaged by means of the PTO clutch lever. Only remain in this position for the time strictly required to engage the clutch and release the lever as quickly as possible.



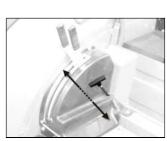
 Move the PTO mode selector lever to the Synchronized position.







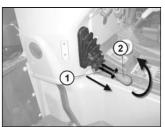
- Use the gearshift lever of the PTO to select the best rate.
- 540/540E (750 Rpm)







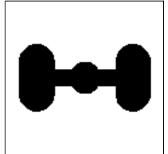
Engage the PTO clutch:
pull to release the safety lock 1 of the clutch lever and pull the lever up
2





 Having finished work, remember to move the PTO's mode selector lever back to the Neutral (Idle) position.

Synchronized PTO - serie 3000 STAR



Synchronised with all gears.

This PTO is used for trailers with driving wheels.

Used in difficult operating conditions (steep slopes, muddy or slippery ground).



The machine could respond in a dangerous way if the clutch lever is suddenly released.



Do not use the synchronized power take-off near or round very tight bends.



 Disengage the PTO clutch by pulling the lever up





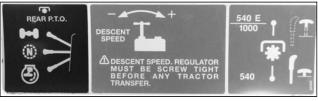
IMPORTANT

The red PTO disengaged indicator light on the multifunction dashboard instrument comes on whenever the PTO clutch is disengaged by means of the PTO clutch lever. Only remain in this position for the time strictly required to engage the clutch and release the lever as quickly as possible.



 Move the PTO mode selector lever to the Synchronized position.







- Use the gearshift lever of the PTO to select the best rate.
- 540/540E (750 Rpm)







 Engage the PTO clutch: press on the button to release the lever and fully lower it





 Having finished work, remember to move the PTO's mode selector lever back to the Neutral (Idle) position.

Table of PTO speeds

PTO speed selector lever	Turning direction:	Ratio	PTO idling rate	Engine RPM
540	Clockwise rotation	4,500	540	2430
540E		3,471	750	2603
340E	1-3/8" profile with 6 splines	3,471	540	1874

Table of Synchronized PTO speeds

These are the revolution of the PTO for every wheel revolution

Speed				
Model	540	540E		
3050				
3050 SL	4.070	6.058		
3080	4.672	0.036		
Energy 60				
Energy 80	4.779	6.197		

Universal joint



Consult the specific manual for instructions about how to use and service certain of the machine parts manufactured by third parties, in safe conditions.



WARNING

To ensure that the universal joint functions correctly and to prevent the components from being demaged, remember that the extent to which the universal joint can technically slant depends on the size and shape of the PTO guard as well on the shape and size of the universal joint itself and its protection devices.

The angle at which the universal joint can slant may therefore vary.



WARNING

Use only power take-off drive shafts with adequate guards.

Front power take-off (optional)



WARNING

Whenever the PTO is not in use, the drive shaft must be covered by the special guard.

1

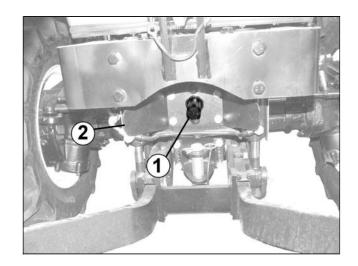
IMPORTANT

If implements that develop a high degree of inertia are connected to the (such PTO lawn mowers. brushwood choppers, etc.), advisable to use a cardan-shaft transmission with "free wheel" device. This device prevents the implement from transmitting drive to the machine and allows it to stop as soon as the clutch is depressed.



WARNING

When the PTO is not used, move the mode selector lever to the OFF position (depending on the model or version). This prevents the shaft of the PTO and other spinning components from accidentally turning.



- 1) Front power take-off (optional) 1000 Rpm
- 2 Metal plate protection.

To engage the front power take-off:

• Set the engine between 1300 - 1900 rpm.





- 1 Press and 2 turn to the ON /
 Engaged position the front PTO engagement selector knob.
- The red indicator light on the dashboard, which shows when the clutch of the front PTO is engaged, will start to flash and will then remain on while the front PTO is being used.

To disengage the front power take-off:





- Having finished work, press the selection knob of the front PTO to return this latter to the OFF / Disengaged position.
- The red indicator light on the dashoboard, which shows when the front PTO is engaged, must go out.

Turning direction:	Ratio	PTO idling rate	Engine RPM
Counter-clockwise rotation	2.45	1000	2450
1-3/8" profile with 6 splines	2.40	1000	2400

REAR POWER LIFT

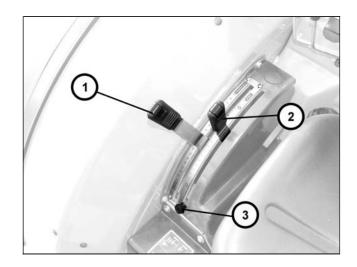
It is a 3-point rear hydraulic power lift controlled by means of the valve system.



The following conditions of use are available:

- Up-down
- Position control
- Draft control
- Floating mode
- Mixed regulation

Up-down

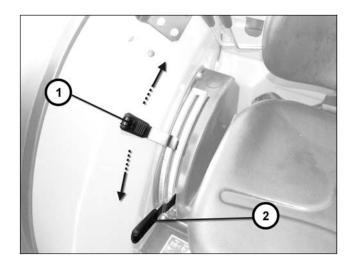


- 1 Rear power lift position control lever.
 - Lever back = Implement lifted.
 - Lever forward = Implement lowered (floating mode for implements that must

follow the contours of the ground).

- Central neutral position
- Lever in intermediate position = Locks the implement at various heights. (Optional)
- 2 Lever for the rear power lift's draft control.
- (3) Lever position stop knob
 - Unscrew the ring nut and move the stop to the desired position
 - Retighten the ring nut

Position control

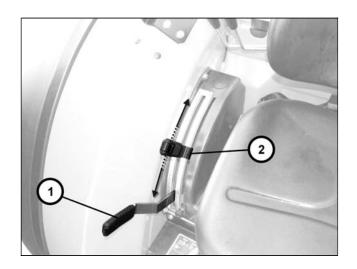


- (1) Rear power lift position control lever.
- 2 Lever for the rear power lift's draft control.

Ideal for jobs where the implement must remain in the same position (drills, scraper, mounted fertilizer spreader, etc.).

- Move the draft control lever 2 to the end of its forward travel.
- Use the power lift's position control lever 1 to lift or lower the power lift. The power lift's position is proportional to the action on the lever.

Draft control



- 1 Rear power lift position control lever.
- 2 Lever for the rear power lift's draft control.

Automatically maintains the lugging power the machine must provide at a steady level, thus preventing slippage (ploughs, cultivators, etc.).

- Move the power lift's position control lever
 to the end of its forward travel.
- Use the draft control lever ② to regulate the degree of draft required.
- Use the power lift's position control lever 1
 to lift and lower the power lift.

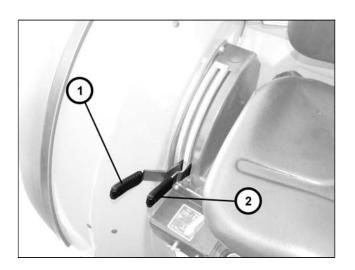
Power lift sensitivity adjustment

When the machine is used in the draft control mode, the speed at which the power lift lowers can be regulated by means of the power lift's locking adjuster:





Floating mode

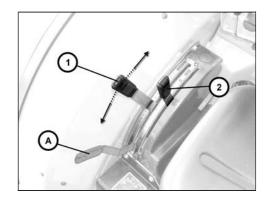


- 1 Rear power lift position control lever.
- 2 Lever for the rear power lift's draft control.

Ideal when the implement must be free to follow the contours of the ground (cultivators, ridgers, scrapers, etc.).

- Move the draft control lever 2 to the end of its forward travel.
- Move the power lift's position control lever
 to the end of its forward travel.

Mixed draft and position mode adjustment



- 1 Rear power lift position control lever.
- 2 Lever for the rear power lift's draft control.
- (A) Initial position of the power lift position adjuster lever

This operating mode is ideal for jobs carried out in the draft control mode on irregular ground when the implement is liable to dig too deeply into the soil.

Dig the implement into the ground down to the desired depth as described for the draft control mode:

- Move the power lift's position control lever
 to the end of its forward travel.
- Use the draft control lever 2 to regulate the degree of draft required.
- Use the power lift's position control lever 1
 to lift and lower the power lift.

Having reached the required depth, gradually move the position control lever to back until power lift's links begin to lift.

The power lift will operate in the draft control mode but will stop the implement from digging too deeply into the soil if it encounters softer ground.

Only use the power lift's position control lever to lift the implement and dig it into the ground.

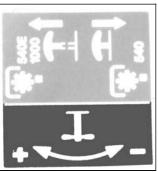
Power lift speed and sensitivity adjustment

1

IMPORTANT

Fully screw-in the adjuster to lock the implement in both the raised and lowered position. This provides a safety function when implements are transported on the roads.





Series 3000





Screw out this regulator to increase lift lowering speed.

3-point hitch sensitivity can be further increased by attaching it to one of the lower tractor hitch holes.

FRONT LIFT (OPTIONAL)

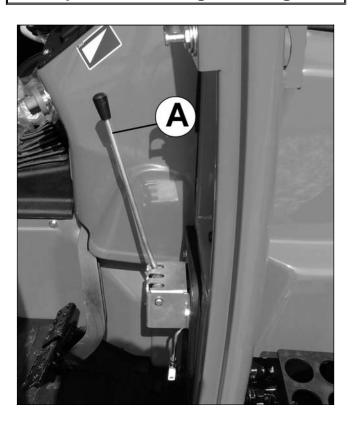
It is a 3-point front hydraulic power lift cat. 1 and 1N controlled by means of the valve system.



The following conditions of use are available:

• Up-down

Front power-lift lifting-lowering



- A Power lift control lever
- Lever forward = Implement lifted.
- Lever in intermediate position = Loks the implement at various height.
- Lever back = Implement lowered.

THREE POINT HITCH

Rear 3-point hitch



DANGER

Keep well away from the hitching zone when you are checking the three point hitch.



WARNING

Do not service, repair or make any kind of adjustment to the tractor or to the implements hitched to it without having first turned off the engine, removed the ignition key and lowered the implement to the ground.



IMPORTANT

Do not use the power lift's third-point as a towing hitch.



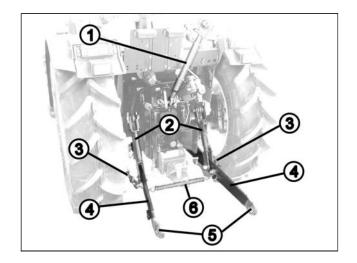
DANGER

Do not wear loose clothing, jewelry, neck chains or bracelets and take care if your hair is very long as it could become caught up in parts of the machine and implements.



IMPORTANT

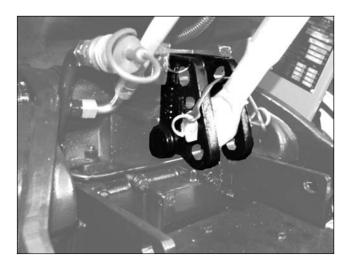
Keep the chains taut and the power lift raised when driving the machine with implements coupled to the three-point linkage.



- 1 Top link linkage
- 2 Adjustable rod

- 3 Side stabilizer Side chains
- 4 Power lift lower link
- 5 Implement hitch end fitting
- 6 Retainer spring

The machine is equipped with a three-point hitch. To ensure that the hitch always functions correctly, always make sure that the size and weight of the implements correspond to the specifications of the hitch and power lift.



The top link's linkage has four holes to facilitate the hitching operation and ensure that the implement slants in the correct way.

To adjust the top link, remove the split pin from the plug, remove the plug from the brackets, set the top link at the height of the required hole, then fit the plug and split pin back in position.

- Upper hole: less sensitivity (suitable for implements that produce a high amount of stress)
- Lower hole: greater sensitivity (suitable for light implements).

3-point hitch adjustment



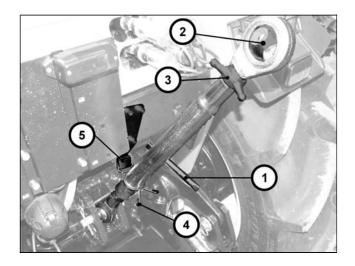
DANGER

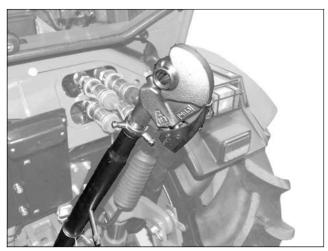
This adjustment must be carried out when the machine is at a standstill, with the engine off and the parking brake engaged.

Top link linkage

Adjustable implement hitch end fitting

- Cat.1 and cat.2 ball end
- Quick coupling





Adjust the length of the top link linkage to change the angle at which the implement digs into the ground.

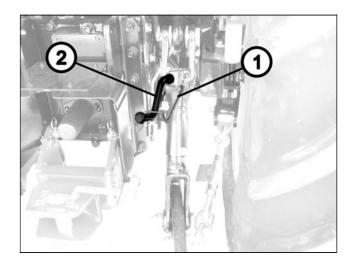
Turn the top link to obtain the required length, using the lever ①.

The ball-shaped implement hitch coupling ② is equipped with two holes for use as cat 1 or cat 2.

Tighten the ring nut 3 to lock the top link in the required position.

Connect the spring 4 to the fixed support 5 if the top link is unused.

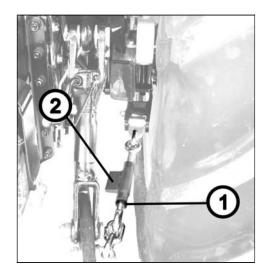
Adjustable rod

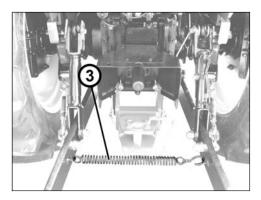


Adjust the adjustable rod so as to level and align the power lift's lower linkages to suit the implement used and the type of job that needs to be done.

To adjust the rod, raise the handle retainer, 1 turn the handle 2 clockwise to raise the lower link or anti-clockwise to lower it until reaching the desired height, then lower the handle retainer back in position.

Stabilizer chains





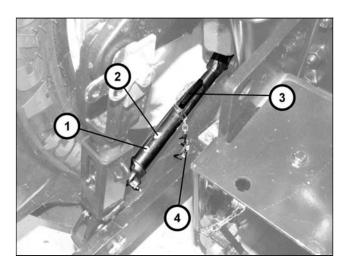
Adjust the side chains to limit the sideways movement made by the lower link of the power lift::

To adjust the chains, unscrew the retainer nut 1 tighten or loosen the chain by means of the handle 2 until the required amount of swing has been obtained then retighten the nut to lock the chain in place.

NOTE. Make sure that the retainer spring ³ is coupled to the lower links to prevent dangerous rubbing against the wheels.

50-60 mm swing for ploughs, rotary harrows, etc. 10-50 mm swing for levelling blades, hoes, etc. 0 mm for transporting implements when they are not working.

Side stabilizer

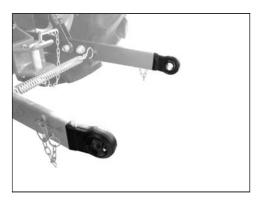


Adjust the side stabilizers to limit the side swing of the power lift's lower links:

To adjust the stabilizer, remove the split pin 4 from the stabilizer itself, tighten or loosen it by means of the handle 3 until obtaining the required degree of swing, fit the split pin back in the hole 1 to lock the stabilizer in the hole 2 to allow it to swing.

50-60 mm swing for ploughs, rotary harrows, etc. 10-50 mm swing for levelling blades, hoes, etc. 0 mm for transporting implements when they are not working.

Implement hitch end fitting



The ball ends have two holes for use as cat 1 or cat 2

Front 3-point hitch (optional)



DANGER

Keep well away from the hitching zone when you are checking the three point hitch.



WARNING

Do not service, repair or make any kind of adjustment to the tractor or to the implements hitched to it without having first turned off the engine, removed the ignition key and lowered the implement to the ground.



IMPORTANT

Do not use the power lift's third-point as a towing hitch.



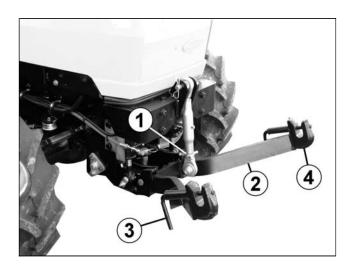
DANGER

Do not wear loose clothing, jewelry, neck chains or bracelets and take care if your hair is very long as it could become caught up in parts of the machine and implements.



IMPORTANT

Keep the chains taut and the power lift raised when driving the machine with implements coupled to the three-point linkage.



Cat. 1 and 1N

- Top link linkage
- 2 Power lift lower link

- 3 Implement hitching lever
- 4 Implement hitch end fitting

The machine is equipped with a three-point hitch. To ensure that the hitch always functions correctly, always make sure that the size and weight of the implements correspond to the specifications of the hitch and power lift.



3-point hitch adjustment



DANGER

This adjustment must be carried out when the machine is at a standstill, with the engine off and the parking brake engaged.

Consult the chapter entitled "Top link linkage" of the rear three-point coupling in order to adjust the top link.

AUXILIARY CONTROL VALVES



WARNING

Take extreme care when hitching and unhitching implements. Have all bystanders move well away from the area where these operations are being carried out.



DANGER

Pressurized fluids can penetrate under the skin and cause serious damage. Always stop the engine and relieve the pressure before connecting/disconnecting any pipes.



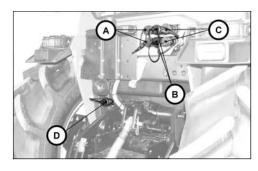
DANGER

The oil and diesel fuel are under pressure. They can cause serious injuries, blindness or even death if they spurt into the eyes or on to the skin. Leaking fluid under pressure may not be visible. Use a piece of wood or paper to find leaks. Never use the bare hands. Always wear safety goggles to protect the eyes. If the fluid penetrates under the skin it must be removed as soon as possible. Seek expert medical help.

Rear hydraulic auxiliary control valves

The machine is equipped with up to three modular control valves, all of which are double-acting with a fourth floating position, which allows the two hydraulic ways of the valve unit to be connected at the same time to the outlet, so as to allow the hitched implement to freely follow the contours of the ground.





A Rear supplementary spool valve lever

(A)

B Rear supplementary spool valve lever

B

© Rear supplementary spool valve lever

, 10 0 0

D Valve with free oil discharge

The valves of the valve units are the 1/2" NPTF type and are complete with rubber protections.

LIFTING: pull the lever up

NEUTRAL: leave the lever in the

intermediate position

LOWERING: push the lever down

FLOATING MODE: push the lever beyond

the LOWERING position.

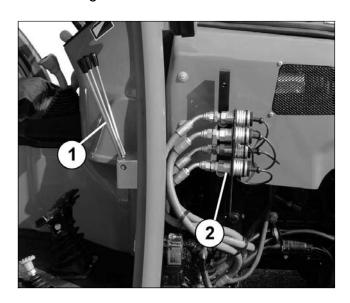
Front hydraulic auxiliary control valves (optional)

CONFIGURATION WITHOUT FRONT POWER LIFT:

- Up to 3 control valves can be installed in the configuration with ROLL BAR.
- Up to 3 control valves can be installed in the configuration with GL cab.

CONFIGURATION WITH FRONT POWER LIFT:

- Up to 2 control valves can be installed in the configuration with ROLL BAR.
- Up to 2 control valves can be installed in the configuration with GL cab.



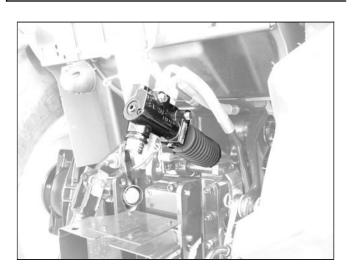
- 1 Front supplementary spool valve lever.
- Front hydraulic control valves

The valves of the valve units are the 1/2" NPTF type and are complete with rubber protections.

The following types of control valve can be selected:

- Single-acting with connection in floating position
- Double-acting
- Double-acting with double lever connection
- Double-acting with Fourth floating position and lever connection

Trailer braking valve



The trailer braking valve is activated by fitting the trailer's female hydraulic valve into the male socket.

Remove the rubber protection before activating the valve.



TOWING ATTACHMENTS



WARNING

The machine could jack up if the towing device is used in the highest position.

 Keep well away from the zone between the tractor and the towed vehicle.



Choose the towing attachment to suit the type of trailer or implement towed, in compliance with the current laws in force.



The ease with which the machine can be driven also depends on the correct use and successive height adjustment of the towing device.



Keep the drawbar as horizontal as possible when using a trailer with synchronized drive.

Towing the machine

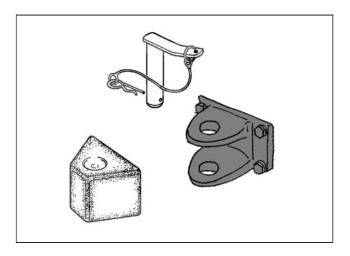
Only use, for both machines (the one that tows or the towed machine), the normal towing devices (drawbar or tow hook).

For connecting the two machines, only use a safe, strong, special chain or rope designed for this particular purpose.

NOTE:

- The tractor must only be towed over short distances and not on public highways.
- The speed must not exceed 10 kph.
- An operator must remain seated in the driver's seat of the towed tractor.

Front tow hook

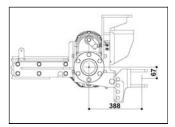


The machine is equipped with a front tow hook allowing emergency trailer manoeuvres to be made or for towing the machine if necessary.

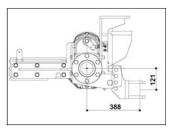
CUNA Class tow hook cat C (3050 3050 SL Energy 60)

The tractor can be equipped with a rear tow hook of the "CUNA" Cat. C for towing trailers with one or two axles.

Approval code DGM-GA 4689 C
HIGH VERSION

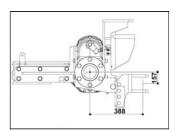


Maximum height

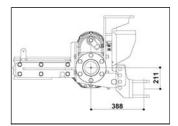


Minimum height

LOW VERSION



Maximum height



Minimum height

Tow hook adjustment (dimensions in mm).

Max vertical load				
High version	Tyres	Kg		
3050 SL Energy 60 AL	320/70-R24" 240/70-R16"	700		
Energy 60 GL10 AL	320/70-R24" 240/70-R16"	620		
Low version		•		
3050 Energy 60	41/14.00-20" 27/8.50-15"	700		
	360/70-R20" 11.0/65-R12"	700		
	320/70-R24" 240/70-R16"	700		
Energy 60 GL10	41/14.00-20" 27/8.50-15"	620		
	360/70-R20" 11.0/65-R12"	620		
	320/70-R24" 240/70-R16"	620		

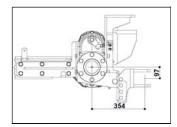


CUNA Class tow hook cat C (3080 Energy 80)

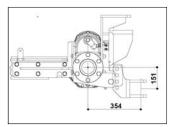
The tractor can be equipped with a rear tow hook of the "CUNA" Cat. C for towing trailers with one or two axles.

Approval code DGM-GA 4689 C

HIGH VERSION

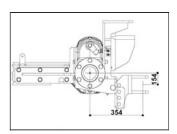


Maximum height

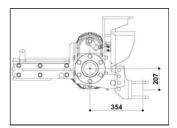


Minimum height

LOW VERSION



Maximum height



Minimum height

Tow hook adjustment (dimensions in mm).

Max vertical load					
High version	Tyres	Kg			
Energy 80 AL	320/70-R24" 240/70-R16"	650			
Energy 60 AL	360/70-R24" 260/70-R16"	650			
Energy 90 Cl 10 Al	320/70-R24" 240/70-R16"	520			
Energy 80 GL10 AL	360/70-R24" 260/70-R16"	520			
Low version					
3080	41/14.00-20" 27/8.50-15"	650			
	360/70-R20" 11.0/65-R12"	650			
	320/70-R24" 240/70-R16"	650			
	41/14.00-20" 27/8.50-15"	650			
Energy 90	360/70-R20" 11.0/65-R12"	650			
Energy 80	320/70-R24" 240/70-R16"	650			
	360/70-R24" 260/70-R16"	650			
	41/14.00-20" 27/8.50-15"	520			
Energy 80 GI 10	360/70-R20" 11.0/65-R12"	520			
Energy 80 GL10	320/70-R24" 240/70-R16"	520			
	360/70-R24" 260/70-R16"	520			

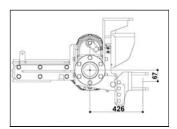


EEC Class tow hook (3050 3050 SL Energy 60)

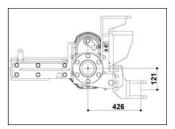
The tractor can be equipped with a rear tow hook of the "EEC" for towing trailers with one or two axles.

Approval code e11-1574

HIGH VERSION

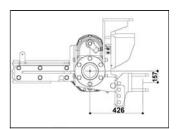


Maximum height

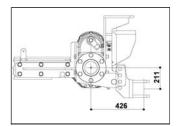


Minimum height

LOW VERSION



Maximum height



Minimum height

Tow hook adjustment (dimensions in mm).

Max vertical load						
High version	Tyres	DaN				
3050 SL Energy 60 AL	320/70-R24" 240/70-R16"	490				
Energy 60 GL10 AL	320/70-R24" 240/70-R16"	540				
Low version		•				
	41/14.00-20" 27/8.50-15"	650				
3050 Energy 60	360/70-R20" 11.0/65-R12"	650				
	320/70-R24" 240/70-R16"	650				
	41/14.00-20" 27/8.50-15"	600				
Energy 60 GL10	360/70-R20" 11.0/65-R12"	600				
	320/70-R24" 240/70-R16"	600				

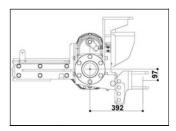


EEC Class tow hook (3080 Energy 80)

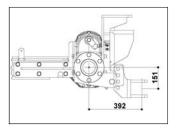
The tractor can be equipped with a rear tow hook of the "EEC" for towing trailers with one or two axles.

Approval code e11-1574

HIGH VERSION

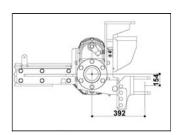


Maximum height

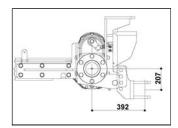


Minimum height

LOW VERSION



Maximum height



Minimum height

Tow hook adjustment (dimensions in mm).

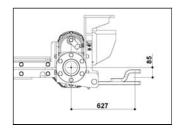
Max vertical load					
High version	Tyres	DaN			
Enorgy 90 Al	320/70-R24" 240/70-R16"	630			
Energy 80 AL	360/70-R24" 260/70-R16"	630			
Energy 80 GL10 AL	320/70-R24" 240/70-R16"	510			
	360/70-R24" 260/70-R16"	510			
Low version					
3080	41/14.00-20" 27/8.50-15"	630			
	360/70-R20" 11.0/65-R12"	630			
	320/70-R24" 240/70-R16"	630			
	41/14.00-20" 27/8.50-15"	630			
Energy 90	360/70-R20" 11.0/65-R12"	630			
Energy 80	320/70-R24" 240/70-R16"	630			
	360/70-R24" 260/70-R16"	630			
	41/14.00-20" 27/8.50-15"	500			
Energy 90 Cl 10	360/70-R20" 11.0/65-R12"	500			
Energy 80 GL10	320/70-R24" 240/70-R16"	500			
	360/70-R24" 260/70-R16"	500			



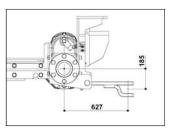
Type BT01 EEC Class drawbar (3050 3050 SL Energy 60)

The tractor can be equipped with a rear drawbar for towing trailers with one or two axles.

Approval code e11*89/173*2006/96*2223 HIGH VERSION

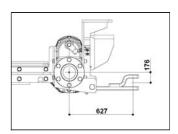


Maximum height

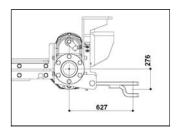


Minimum height

LOW VERSION



Maximum height



Minimum height

Tow hook adjustment (dimensions in mm).

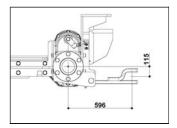
Max vertical load						
High version	Tyres	DaN				
3050 SL Energy 60 AL	320/70-R24" 240/70-R16"	410				
Energy 60 GL10 AL	320/70-R24" 240/70-R16"	450				
Low version						
0050	41/14.00-20" 27/8.50-15"	500				
3050 Energy 60 Energy 60 GL10	360/70-R20" 11.0/65-R12"	500				
	320/70-R24" 240/70-R16"	500				



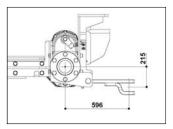
Type BT01 EEC Class drawbar (3080 Energy 80)

The tractor can be equipped with a rear drawbar for towing trailers with one or two axles.

Approval code e11*89/173*2006/96*2223 HIGH VERSION

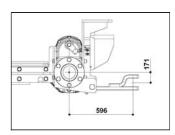


Maximum height

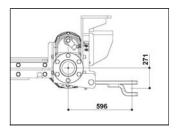


Minimum height

LOW VERSION



Maximum height



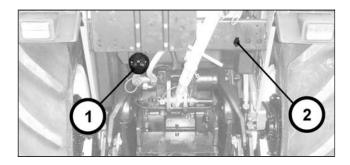
Minimum height

Tow hook adjustment (dimensions in mm).

Max vertical load					
High version	Tyres	DaN			
Enorgy 90 Al	320/70-R24" 240/70-R16"	500			
Energy 80 AL	360/70-R24" 260/70-R16"	500			
Energy 90 Cl 40 Al	320/70-R24" 240/70-R16"	460			
Energy 80 GL10 AL	360/70-R24" 260/70-R16"	460			
Low version					
	41/14.00-20" 27/8.50-15"	500			
3080	360/70-R20" 11.0/65-R12"	500			
	320/70-R24" 240/70-R16"	500			
	41/14.00-20" 27/8.50-15"	500			
Energy 80	360/70-R20" 11.0/65-R12"	500			
Energy 80 GL10	320/70-R24" 240/70-R16"	500			
	360/70-R24" 260/70-R16"	500			



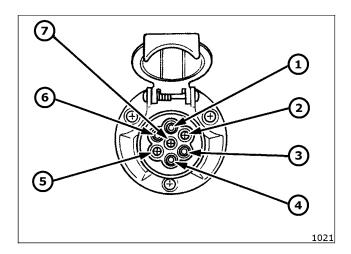
Seven-pin trailer socket



- 1 7-pin socket.
- 2 1-pin socket 12V

This seven-pin socket is used to connect lights, turn indicators and other electrical devices for a trailer or implement.

Supplementary lights must be used if an implement obscures the turn indicators or other lights at the rear of the machine.



Terminal functions:

- 1 Left turn indicator.
- (2) Vacant
- 3 Ground.
- Right turn indicator.
- 5 Right rear light.
- 6 Brake lights.
- 2 Left rear light.

BALLAST

Ballast (optional)



WARNING

When you determine the type of ballast to use, make sure that you do not exceed the following limits between the implement and the ballast itself:

- The permissible load on the front axle (KG)
- The permissible load on the rear axle (KG)

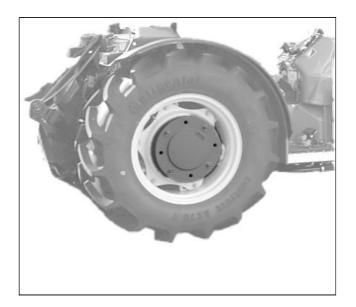
The values are given on the tractor's metal data plate.

If very heavy implements are hitched to the tractor, the longitudinal stability of this latter may be impaired. This can be corrected by using one of the various types of ballast available as optionals.

Rear wheel ballast (optional)

The ballast can be assembled on the 24" rear wheels.

Up to two pairs of weights can be installed, for a total of 140 kg.



Front ballast (optional)



WARNING

DO NOT overload the machine with additional weights or ones differing from those described in this manual.



WARNING

when the machine is used for light work or for travelling or towing on the roads, the ballast would stress the moving parts unnecessarily and should therefore be removed.



If heavy implements that could impair the stability of the machine are hitched, the optional plates can be used as front ballast.

The front ballast consists of cast iron plates.

The plates have handles so that they can be assembled and disassembled.

The ballast plates must be fitted to the front support (optional) and must be fixed in place with the relative links (optional).

 Up to 5 plates can be installed, for a total of 100 kg.

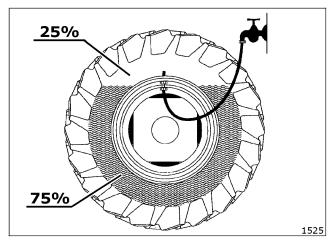
Wheel ballasting by filling the tyres with fluid

The driving wheels are ballasted by pouring water into the tyres.

Note: it is preferable to use wheels with air chambers.

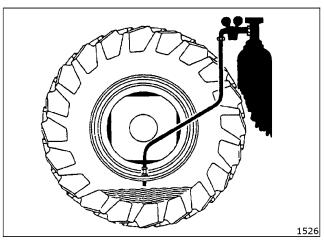
Note: if wheels with tubeless tyres are used, ask your dealer how to correctly lubricate the disc so as to prevent it from rusting.

Note: add antifreeze to the water in cold weather.



To pour in water:

- Move the valve to the top.
- Unscrew the mobile valve union with caution.
- Put in water through a special tool.
- Stop filling every so often, so as to allow the air to escape.
- Stop filling altogether when water spills from the valve.
- The filling level must equal 75% of water.
- Tighten the mobile valve union.
- Inflate with air until the normal operating pressure is obtained.



How to drain out the water:

- Move the valve to the bottom.
- Unscrew the mobile valve union with caution.
- Allow the water to drain out.
- Finish emptying with a union and draw pipe.
- Inflate with air until the water has been completely emptied out.
- Tighten the mobile valve union.
- Inflate with air until the normal operating pressure is obtained.

CAB



WARNING

Never use the tractor without the cab.



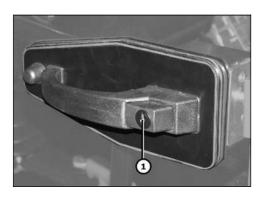
Safety notes

- (a) Always shut the doors before moving off with the tractor.
- b) Keep the windows clean to ensure good visibility.
- c) The cab is approved as a safety structure. It is therefore absolutely forbidden to tamper with it, modify or add extra equipment and/or supports.

Cab version



Doors



1

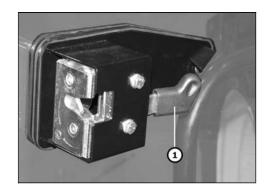
Handle

Door opening from the outside

Unlock the lock, press the button and pull the door towards you.

Door locking from the outside

Both the doors have locks that are opened with the key. This means that both the left-hand and right-hand doors can be locked.



1

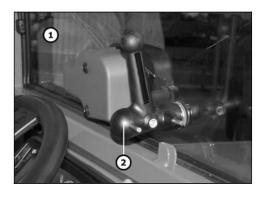
Handle

Door opening from the inside

To open the door from inside the cab, pull the lever and push the door to overcome the resistance opposed by the gas cylinders

Windows

Front window

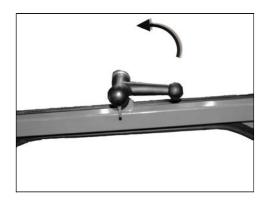


- Front window
- 2 Locking handle

To open the front window:

- Turn the locking handle as shown.
- Push the window forwards.
- The window is kept in position by dampers.

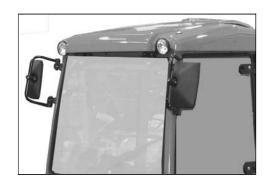
Rear window



To open the rear window:

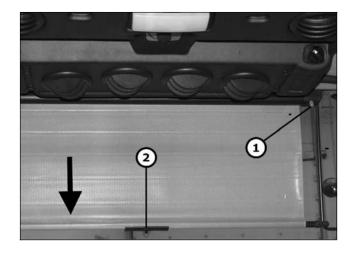
- Turn the locking handle as shown.
- Push the window forwards.
- The window is kept in position by dampers.

External rear view mirrors



The rear view mirrors can be positioned in all directions and provide the user with excellent visibility from the driver's seat.

Sun shade

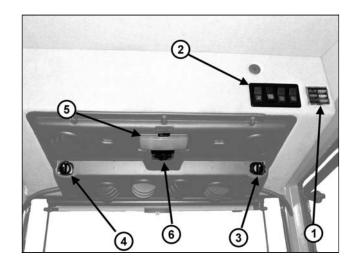


- Curtain rewind control
- (2) Curtain control

To lower the curtain, pull it down as shown by the arrow (curtain control).

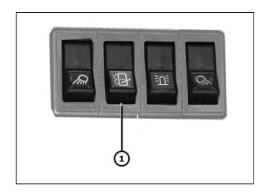
Press the curtain rewind control to rewind the curtain.

Cab switches



- 1 Fuse box
- 2 Switches
- 3 Air conditioning
- 4 Electric fan
- 5 Ceiling light
- 6 Heater knob

Windscreen wiper

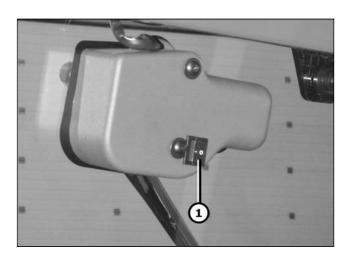


Operates when the ignition key is in the contact position.

Press the indicated switch to operate the windscreen wiper.

NOTE: The lower part of the button lights up when the light switch knob is turned to the side lights position (first position).

Rear window wiper

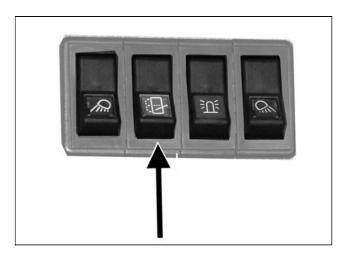


- position 1 = activated
- position 0 = de-activated

Operates when the ignition key is in the contact position.

Press the switch in position one to operate the rear window wiper.

Windscreen-rear window washer

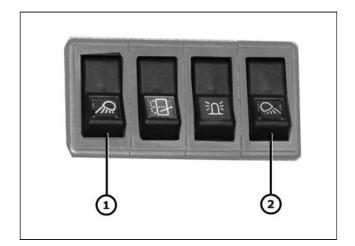


Operates when the ignition key is in the contact position.

Press the switch in the direction indicated by the arrow. By keeping it depressed, water will begin to spray on both the windscreen and rear window.

NOTE: Release the button and it will immediately return to the position where the windscreen wiper operates.

Cab headlights



- 1 Front field light.
- Rear field light.

Operates when the ignition key is in the contact position.

The field lights are adjustable.

This means that you can direct the beam of light in the most suitable direction, depending on the job that must be done.

Press the switches (1 and 2) down to turn on the field lights.

Light inside cab



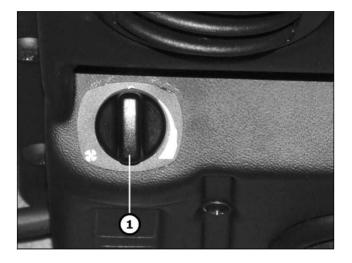
- 1 Light switch.
- 2 Light inside cab.

Operates when the ignition key is in the contact position.

Press the indicated switch to turn on the light.

Ventilation

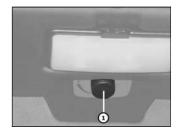
The cab ventilation is turned on with the ventilation knob. The flow of air can be directed by means of the vents, which can be set in various positions.



1 Electric fan

Select one of the electric fan's three speeds to change the amount of air that enters the cab.

Heating



1 Heater knob

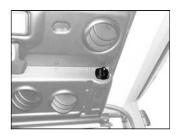
The hot air temperature can be regulated with the knob. Turn the knob to regulate the temperature. The highest temperature in the cab is obtained by turning the knob in the clockwise direction (fully towards the right).

Turn the knob fully to the left tp stop hot air from circulating around the cab.

Select one of the electric fan's three speeds to change the amount of air that enters the cab.

Turn on the air conditioner to obtain the dehumidifying function.

Air conditioning



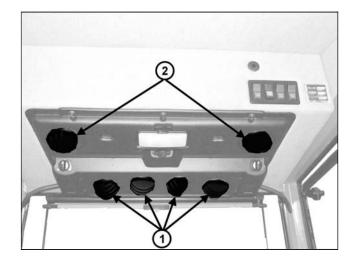
The cold air temperature can be regulated with the knob. Turn the knob to regulate the temperature. The lowest temperature in the cab is obtained by turning the knob in the clockwise direction (fully towards the right).

Turn the knob fully to the left tp stop cold air from circulating around the cab.

Select one of the electric fan's three speeds to change the amount of air that enters the cab.

Make sure that the heating system is off to ensure that the air conditioner operates in a fully efficient way.

Diffusers



- (1) Vents
- Aspirators

To allow air to circulate around the cab, allow the ventilation system to function with all the vents and aspirators open and the doors closed. This allows the circuit to draw air from inside the cab and not from the outside.

Cab air filter

WARNING: the cab air filter has not been designed to retain harmful substances! Comply with the instructions provided by the

manufacturer of the substance used.

WARNING: use of the cab air filter with activated carbon does not relieve the operators from wearing recommended personal protective equipment to safeguard against the harmfulness of the individual substances used.

LIFTING POINTS

Hydraulic jack:

Consult your operation and maintenance manual for instructions about maintenance and how to perform the servicing operations.



WARNING:

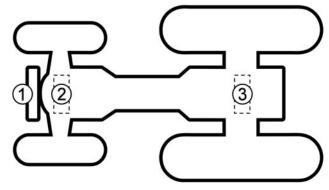
Make sure that the devices have been fixed correctly before using the hydraulic ram.



WARNING:

Do not use the drawbar as a lifting point.

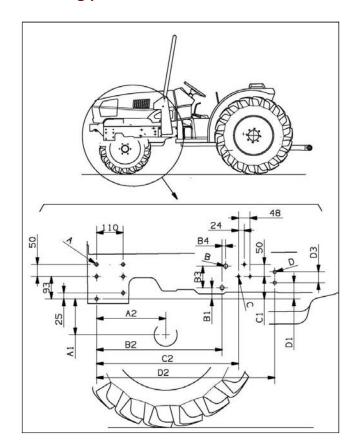
The recommended lifting points are:



- 1 Weights support
- (2) Front axle
- 3 Rear differential housing

FRONT LOADER FIXING POINTS

The fixing points for a front loader are:



А	N°6 M14
A1	90 mm
A2	300 mm
С	N°3 M10
C1	93 mm
C2	490 mm

SCHEDULED SERVICING



- Before using the machine
- With the machine at a standstill and the engine off (for at least the past hour).
- On a flat surface.

SCHEDULED SERVICING

The user must have the machine itself regularly serviced to ensure that it continues to function correctly, and to benefit from the manufacturer annual warranty coverage. Most especially, the user must, at his expense, have all the following routine servicing work performed on his machine by his manufacturer area "Dealer" or "Authorized Workshop" in accordance with the peremptory conditions and terms indicated below.

A series of symbols have been make to make the texts easier to understand. Their meanings are described below:



Clean with compressed air

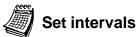


Lubrication

- Greasing



Part replacements

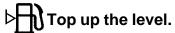




Work hours

When necessary.







SCHEDULED SERVICING



DANGER

Do not wear loose clothing, jewelry, neck chains or bracelets and take care if your hair is very long as it could become caught up in parts of the machine and implements.



DANGER

Do not leave the engine running in an closed room: the exhaust fumes are poisonous.



DANGER

Do not leave the machine with engine running near flammable substances.



DANGER

After any maintenance work, grease and remove the grease from the engine to prevent the risk of a fire.



DANGER

Keep hands and other parts of the body away from holes or leaks in the hydraulic system: the hydrualic fluid that spurts from the leak is under pressure and can cause serious injuries.



WARNING

Do not tamper with the machine or the implements in any way.



WARNING

Do not service, repair or make any kind of adjustment to the tractor or to the implements hitched to it without having first turned off the engine, removed the ignition key and lowered the implement to the ground.



WARNING

Always park the tractor so that its stability is guaranteed by applying the parking brake and engaging a gear (1st gear uphill abd reverse downhill)and applying the parking brake. Use a chock for greater safety.



WARNING

Before driving the machine, check to be sure that there are no bystanders or animals within its range of action.



WARNING

Do not leave the machine unattended with the engine running and/or the key in the ignition.



WARNING

The operator must check to make sure that all parts of the tractor, especially the safety devices, are in a good working condition and that they always comform to the purpose for which they were designed. They should be kept in a perfectly efficient condition. If you note any defects or faults, fix or repair them in good time. If necessary contact your nearest Assistance Centre.



IMPORTANT

Check the nuts and bolts of the wheels and safety frame from time to time, always with the engine shut off.



DANGER

Safety decals have been affixed to various parts of the machine. They indicate potential dangers.



IMPORTANT

The decals must be kept clean and legible. If damaged, they must be replaced.



WARNING

Always disconnect the battery's ground cable (negative pole with the "" symbol) before working on the electrical system.



WARNING

Work on the battery requires particular care: battery acid is corrosive and the gases released are inflammable.



It is of fundamental importance to safeguard the environment. Incorrect waste disposal can alter the environment and the ecological system.



Do not discard fluids like fuels, lubricants, coolants or other, in the environment.



Do not use food or dink containers, which could lead to mistakes, to drain off fluids like fuels, lubricants, coolants or other.



Contact an authorized organization or ask your dealer for advice about how to recycle or dispose of waste products in the correct way.



Do not dispose of parts of the cooling system (such as radiators, fluids, tanks, etc.) in the environment.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.

Routine scheduled maintenance

WARNING

WARNING
The following table shows the maintenance intervals.

Extraordinary Maintenance:

Work	ing range	Hours	50	8	16	50	300	500		1000	
	\succeq	Months	12				12	24	24	24	`₩`
\Box	Engine oil				0						Þ
	Engine oil filte	r									
	Fuel filter										
	Fuel tank										
	Cooling system			A		©					₩
	Transmission belt					©					
	Dry air filter - External filter			0		7					
	Dry air filter safety filter	r - Internal									

Work	ing range	Hours	50	150	50	150	300	900	<u> </u>
	\boxtimes	Months	12				12	12	
O	Gearbox housing, power lift	rear differential,			©				₹ ₩
	Delivery oil filter (Ma	in Pump)						100000	
	Only for Energ	ıy 80 - 40 km/h							©
	Intake transmission	oil filter	50				8		
	Front differential						©		₹ №
	Grease nipple				~				@ ~
	Clutch								
	Steering								7
	Brakes								F
	Hydraulic pipes								
	Cab air filter				©				
1	Activated carbon filt	er	Fo	red, oi h serv or maii structi	eplace r at lea rice or ntenar ions p nanufa	st afte 36 me nce, fo rovide	er ever onths. Ilow the ed by t	y 200 ne	
<u>-</u> +	Electrical system					0			

 $[\]bigcirc$: In the applications where it is present.

ENGINE UNIT

Engine



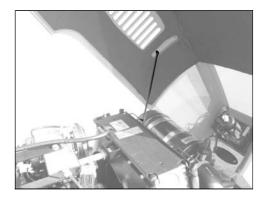
Consult the specific manual for the safety notes and operation and maintenance instructions for certain of the components manufactured by other companies.

How to open the bonnet

3050 3050 SL Energy 60



Release the rods and lift the bonnet.



 Before shutting the bonnet, release the safety locking pin by pulling it upwards, as shown in the figure.

3080 Energy 80





Lock releasing lever
 Pull the relative lever outwards to release the lock

or

 Use the appropriate tool in the accessory pack (6 mm Allen wrench) by turning it counterclockwise.



Once opene, the bonnet remains in the open position thanks to a gas spring Close the bonnet by lowering it until it completely engages with the lock



WARNING

During normal use be sure that the bonnet is correctly closed

Cooling system



WARNING

Stop the engine and wait until it has cooled down before proceeding with any servicing operations.



WARNING

Never open the radiator's expansion tank whilst the engine is hot since the cooling fluid could cause burns as it is under pressure and very hot.



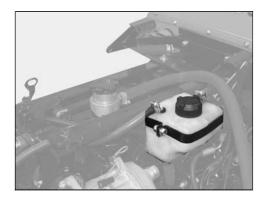
Clean





Clean the radiator guard when necessary, or at least once a week:

- Remove the guard from its housing.
- Blow from the sides outwards using a jey of compressed air (maximum pressure 3 BAR).







50

- Check the level of the cooling fluid.
- Make sure that the radiator guard is clean.



Replace



Change the cooling fluid every two years. Contact an authorized workshop maintenance is required.

when

Top up level





Top up the level of the cooling fluid when required:

- Remove the plug from the reservoir.
- Top up the level.
- Screw the plug back on and tighten it fully.



IMPORTANT

The words "COOLANT LEVEL" are stamped on the expansion tank surrounded by two arrows, which indicate the correct coolant level.

We recommend Petronas Lubricants fluid: PARAFLU 11

It is also advisable to use antifreeze solutions, complying with the specifications given on the relative package.



Do not discard fluids like fuels, lubricants, coolants or other, in the environment.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.

Engine oil level check



See engine's operation and maintenance manual.



DANGER

Take great care when used oil is being drained from the sump as it could be very hot and cause burns.



WARNING

Stop the engine and wait until it has cooled down before proceeding with any servicing operations.



DANGER

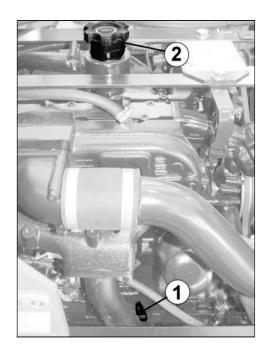
Protect your hands, because the oil could burn if it is very hot.



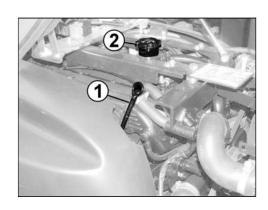
DANGER

Protect your hands, because the dipstick could be very hot and cause burns.

3050 3050 SL Energy 60



3080 Energy 80

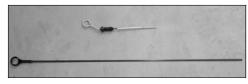


- Oil level dipstick.
- 2 Oil top-up plug.





16



Check the oil level by means of the dipstick (MIN-MAX)





- Unscrew the oil top-up plug.
- Top up the level.
- Screw the plug back on and tighten it fully.

We recommend Arbor oil by Petronas Lubricants: ARBOR ALFATECH SYNT 10W-40





See engine's operation and maintenance manual.



Do not discard fluids like fuels, lubricants, coolants or other, in the environment.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.

Dry air filter (3050 Energy 60)

1

WARNING

Stop the engine and wait until it has cooled down before proceeding with any servicing operations.







Clean the filter whenever the warning light comes on or when necessary, after evaluating the environmental conditions in which the machine works (dusty, dry, etc.). Proceed as described below:





Cover.

Release and remove the cover.



External filter.

- Remove the external filter.
- Blow a jet of compressed air (maximum pressure 3 BAR) from the inside towards the outside.
- Fit the filter back into its housing.
- Close with the cover, with the drain valve in the lowest position.



Internal safety filter.

Remove the internal safety filter (it must be cleaned or replaced if damaged).





300

- Replace the external filter when required, or at least after every 300 h service.
- Replace the internal safety filter when required, or at least once a year.
- The internal filter changes colour when dirty

Dry air filter (3080 Energy 80)

MAF Stor

WARNING

Stop the engine and wait until it has cooled down before proceeding with any servicing operations.







Clean the filter whenever the warning light comes on or when necessary, after evaluating the environmental conditions in which the machine works (dusty, dry, etc.). Proceed as described below:

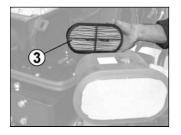




- ① Cover.
- Release and remove the cover.



- 2 External filter.
- Remove the external filter.
- Blow a jet of compressed air (maximum pressure 3 BAR) from the inside towards the outside.
- Fit the filter back into its housing.
- Close with the cover, with the drain valve in the lowest position.



3 Internal safety filter.

Remove the internal safety filter (it must be cleaned or replaced if damaged).





300

- Replace the external filter when required, or at least after every 300 h service.
- Replace the internal safety filter when required, or at least once a year.
- The internal filter changes colour when dirty

Fuel tank







Check:

- To make sure that there is sufficient fuel for the whole job.
- To make sure that there are no dents or abrasions on the tank.



Clean with compressed air



Clean the zone surrounding the tank plug.





Use good quality fuel with the technical specifications described in the engine's operation and maintenance manual.



WARNING

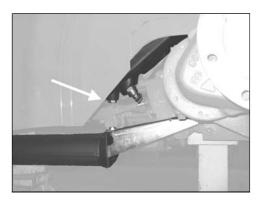
Top up the fuel level when the engine is off. Do not smoke near fuel or when the tank is being filled.





Replace the fuel plug with a genuine spare if it is missing or damaged.

Replace the tank with a genuine spare if it has been damaged by scratches, abrasions or dents.



Fuel tank drain plug.



WARNING

Empty the fuel tank when the machine is at a standstill and the engine cold since, as shown in the figure, the drain plug is in the immediate vicinity of the exhaust pipe.



IMPORTANT

The fuel tank must only be replaced by the dealer or by specialized technicians.



Clean



Clean the fuel filter shown in the figure when necessary.



Fuel filter



WARNING

Do not tamper with or remove the fuel tank, otherwise the engine's fuelling system could function in a faulty way.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.



TRANSMISSION UNIT

Gearbox housing, rear differential, power lift



DANGER

Protect your hands, because the oil could burn if it is very hot.



DANGER

Protect your hands, because the dipstick could be very hot and cause burns.

These parts of the tractor all use the same oil.

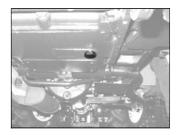












Check the oil level by means of the oil plug with the graduated stick situated near the parking brake. The level must be at its minimum with the plug just set in place, or, between the minimum and maximum with the cap screwed in.

A

WARNING

The level must not drop below the minimum mark as this could lead to hydraulic faults (loss of pressure in the power steering system, the auxiliary control valves and power lift) and incorrect internal lubrication.





Check the oil level by means of the dipstick.

If necessary, top up with oil of the recommended type.

We recommend Arbor oil by Petronas Lubricants: ARBOR UNIVERSAL 15W-40





900

We recommend Arbor oil by Petronas Lubricants: ARBOR UNIVERSAL 15W-40

Quantity Oil L							
Model	Low version	High version					
3050		35					
3080	33	/					
Energy 60		35					
Energy 80	35	36					



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.



Intake transmission oil filter



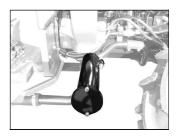
Protect your hands, because the oil could burn if it is very hot.





300

3050 3050 SL 3080 Energy 80



Energy 60



Clean the transmission oil filter:

- After the first 50 hours service.
- Whenever the oil is changed.
- After every 300 hours service.
- Whenever the red indicator on the dashboard denoting a clogged oil filter comes on

To clean the filter:

- Unscrew the bolts that fix the cover.
- Remove the filter.
- Wash with gasoline or diesel fuel.
- Dry with compressed air.
- Fit the cover back on and close it.





The transmission oil filter must only be replaced if damaged.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.



Delivery oil filter (Main pump)

DANGER Protect

Protect your hands, because the oil could burn if it is very hot.





300

Only for Energy 80 - 40 km/h version



The first replace must be made after 150 h

Replace the intermal cartridge of the transmission oil filter on the delivery:

- After every 300 hours service.
- When the red clogged oil filter indicator light comes on.
- Whenever the oil is changed.

Proceed as described below to change the filter cartridge:

- Unscrew the lower part of the filter.
- Remove the internal cartridge and replace it with an original spare.
- Fit the lower part of the filter back in place and screw it in as far as it will go.

IMPORTANT

The service must only be carried out by the dealer or by specialized technicians.



ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.



Front differential

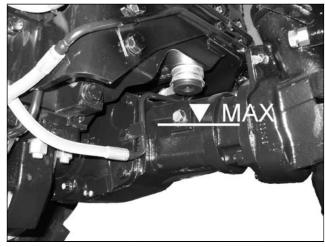


Protect your hands, because the oil could burn if it is very hot.





300



Check the oil level by means of the oil level plug. The oil must reach the lower edge of the hole. If necessary, top up with oil of the recommended type.

We recommend Arbor oil by Petronas Lubricants: **ARBOR TRW 90**



Clean with compressed air



Keep the following parts clean:

• The areas surrounding the oil level, drain and fill plugs.





900

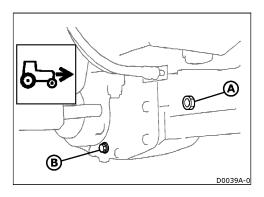
Low version

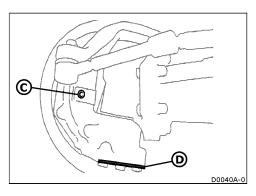
Change the oil in the final drive, which requires about 5.6 litres of fluid.

High version

Change the oil in the final drive, whish requires about 6.7 litres of fluid.

We recommend Arbor oil by Petronas Lubricants: **ARBOR TRW 90**





- **B**Drain out the oil through the plug in the center of the front axle.
- Drain the oil through the drain plug in the lower part of the final drive on both the front wheels.
- Pour in the oil through the plug used to top up the level.
- © Put in the oil through the plug on both wheels.

Pour in the oil through the plug used to top up the level.

Allow the oil to settle before checking the new level.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.



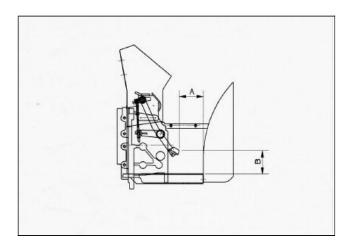
ALWAYS place a vessel under the drain hole so as to collect the fluid when draining a tank or reservoir.



Clutch (Energy 60 Energy 80)







Energy 60

Ped free		begins	Pedal as it begins to disengage.		fter ement
Α	В	А	АВ		В
210		245	245		

Energy 80

Ped free		begins	Pedal as it begins to disengage.		fter ement
Α	В	Α	В	А	В
180		220		390	

Periodically check the idle travel of the command.

The pedal's idle travel must not exceed 25 mm. Adjust the clutch pedal if the travel is longer.









Figure 1

Figure 2



Figure 3

Disassemble the side closing flap (Figure 1) and adjust the idle travel of the pedal.

Unscrew the adjuster nut (Figure 2-3) to increase the travel or tighten it to shorten the travel.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.





If necessary, have the clutch assembly replaced by an authorized workshop. Only use a genuine spare.



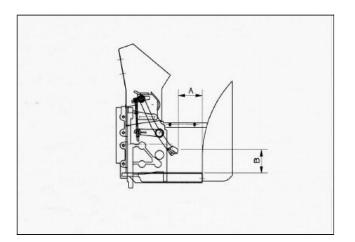
IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.

Clutch (3050 3080)







High version

	Pedal as it begins to disengagement disengage.				
Α	В	Α	В	А	В
180		220		345	

Low version

Pedal free		Pedal as it begins to disengage.		Pedal after disengagement	
Α	В	А	В	А	В
230		275		390	

Periodically check the idle travel of the command.

The pedal's idle travel must not exceed 25 mm. Adjust the clutch pedal if the travel is longer.





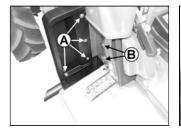




Figure 1

Figure 2



Figure 3

Disassemble the side protection by unscrewing the screws (A) and (B) (Figura 1) and adjust the idle travel of the pedal.

Unscrew the adjuster nut (Figure 2) to increase the travel or tighten the nut to shorten the travel.

NOTE Remember to fit the spacer back in place when the side protection is re-assembled (figura 3)



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.





If necessary, have the clutch assembly replaced by an authorized workshop. Only use a genuine spare.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.

Rear power take-off clutch







Periodically check the idle travel of the command.

The pedal's idle travel must not exceed 20 mm. Adjust the clutch pedal if the travel is longer.

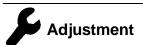






Figure 1



Figure 2



Figure 3

Disassemble the side closing flap (Figure 1) and adjust the idle travel of the pedal.

Unscrew the adjuster nut (Figure 2-3) to increase the travel or tighten it to shorten the travel.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians.



: Replace



If necessary, have the clutch assembly replaced by an authorized workshop. Only use a genuine spare.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians.

Rear power take-off clutch (3050 3080)







Periodically check the idle travel of the command.

The pedal's idle travel must not exceed 60 mm. Adjust the clutch pedal if the travel is longer.





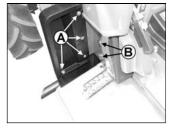


Figure 1

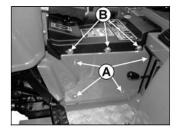


Figure 2



Figure 3



Figure 4

Disassemble the side protections by unscrewing the screws (A) and (B) (Figure 1-2) and adjust the idle travel of the lever.

Unscrew the adjuster nut (Figure 3) to increase the travel or tighten the nut to shorten the travel.

NOTE Remember to fit the spacer back in place when the side protection is re-assembled (figure 4)



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.





If necessary, have the clutch assembly replaced by an authorized workshop. Only use a genuine spare.



IMPORTANT

The service must only be carried out by the dealer or by specialized technicians from GOLDONI s.p.a.

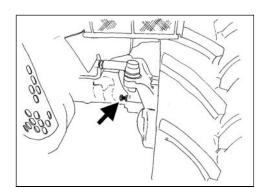
Steering





The machine is consigned with steering characteristics optimized to suit the first tyres installed.

If the tyres must be modified, the steering radius must be adjusted again.



Use the adjuster screws to regulate the steering radius



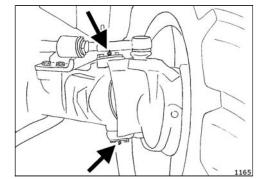
IMPORTANT

The service must only be carried out by the dealer or by specialized technicians.

- Greasing



8



Grease:

It is advisable to use Arbor all-purpose grease by Petronas Lubricants: **ARBOR MP EXTRA**

Brakes





Make the adjustment when:

- The brake pedal travel is too long or spongy.
- When one of the wheels brakes differently from the others.
- When the braking distances increase but the conditions of use are the same.

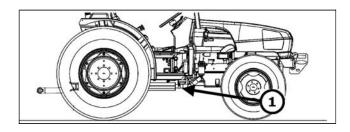


IMPORTANT

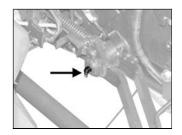
Only your dealer or specialized personnel may adjust the braking system.

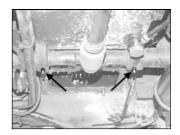
GREASE NIPPLE

Right side view

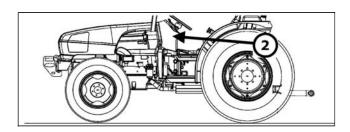


1 Brake pedal. Grease nipples N°:3

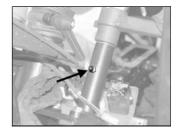




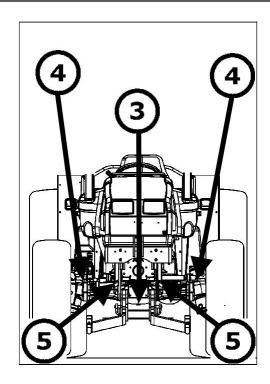
Left side view



2 Direction reverser. Grease nipples N°:1



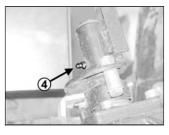
Front view

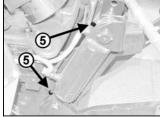


- 3 Front axle. Grease nipples N°:2
- 4 Front mudguard. Grease nipples N°:2
- 5 Cylinders Power lift. Grease nipples N°:4

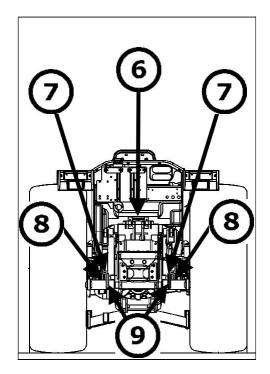




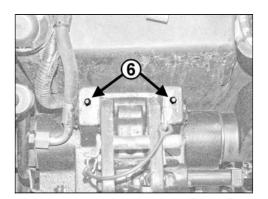


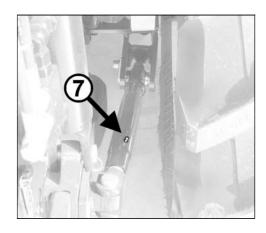


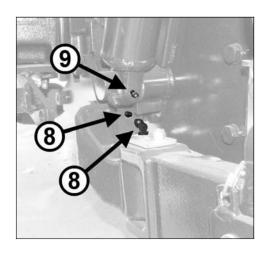
Rear view



- Top link linkage fix point. Grease nipples N°:2
- 7 Side stabilizer. Grease nipples N°:2
- 8 Power lift lower link. Grease nipples N°:4
- Oylinders Power lift. Grease nipples N°:2







ELECTRICAL SYSTEM

 \triangle

WARNING

Always disconnect the battery's ground cable (negative pole with the "- " symbol) before working on the electrical system.

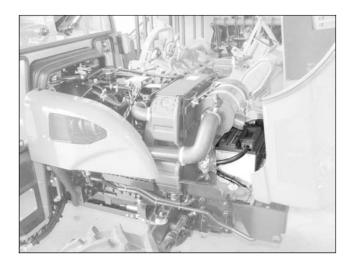
Battery



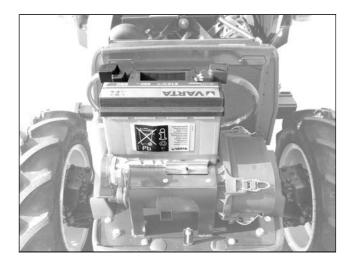
WARNING

Work on the battery requires particular care: battery acid is corrosive and the gases released are inflammable.

3050 3050 SL Energy 60



3080 Energy 80



OCheck



150

Make sure that the battery is firmly fixed to the machine.



Clean

Keep the battery clean with a damp, antistatic cloth.

Keep the battery poles and cable terminals clean.

- Greasing



Lightly grease the poles and terminals when necessary.

Use Vaseline-based grease, not normal grease.

Danie Top up level



Check the level of the battery acid and keep it topped up so that the battery elements are always covered. Add distilled water with the engine off and well away from naked flames.

₽^{zzz}z

Idle periods

If the machine remains idle for a long period of time:

- Charge the battery as indicated by the manufacturer.
- Disconnect both the cables.
- Store the battery in a cool, dry, well ventilated place.



Replace



If the battery must be replaced, make sure the new one possesses identical technical specifications (the values are given on the actual battery itself).

Headlights



public highways, the headlights must If the tractor must be driven on the comply with the Highway Code regulations in force in the country of use.



Adjustment



Consult specialized personnel in possession of the specific tools required in order to have the headlights adjusted correctly.



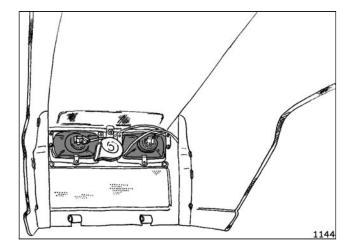
IMPORTANT

The service must only be carried out by specialized dealer or by technicians.





Replace burnt-out light bulbs with others if identical technical characteristics (see indications on the bulbs themselves). Consult specialized personnel if in doubt.



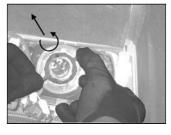
To change the dipped beam / driving beam:





Figure 1

Figure 2



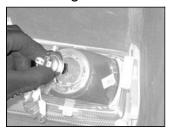


Figure 3

Figure 4

- Open the bonnet:
- Disconnect the wiring of the defective bulb (Figure 1).
- Remove the protective cover (Figure 2)
- Remove the retainer spring by pushing the 2 tabs downwards while turning them in the anti-clockwise direction (Figure 3).
- · Remove the bulb and fit a new one in its place (Figure 4).
- Fit the spring and the protective cover back in place.
- Connect the wiring to the bulb.
- Close the bonnet
- Test both the dipped beam and driving beam to make sure that they function correctly

Side lights and turn indicators





To replace the side light and/or the turn indicator light:

Replace burnt-out light bulbs with others if identical technical characteristics (see indications on the bulbs themselves).

Consult specialized personnel if in doubt.



Figure 1





Figure 2

- Remove the tail lamp cover (figure 1)
- Remove the bulb by turning it 1/4 of a turn in the anti-clockwise direction (figure 2)
- Fit a new bulb in its housing, push it into place and turn it 1/4 of a turn in the clockwise direction.
- Fit the tail lamp cover back in place
- Perform an operating test.

CAB VERSION GL





To replace the side light and/or the turn indicator light:

Replace burnt-out light bulbs with others if identical technical characteristics (see indications on the bulbs themselves).

Consult specialized personnel if in doubt.



Figure 1





Figure 2

- Remove the tail lamp cover (figure 1)
- Remove the bulb by turning it 1/4 of a turn in the anti-clockwise direction (figure 2)
- Fit a new bulb in its housing, push it into place and turn it 1/4 of a turn in the clockwise direction.
- Fit the tail lamp cover back in place
- Perform an operating test.

Rear lights

To replace the side light and/or the turn indicator light:

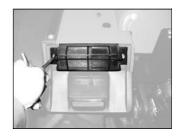


Figure 1



Figure 2



Figure 3

- Disassemble the headlight protection (figure 1)
- Remove the glass holder (figure 2)
- Remove the bulb by turning it 1/4 of a turn in the anti-clockwise direction (figure 3)
- Fit a new bulb in its housing, push it into place and turn it 1/4 of a turn in the clockwise direction.
- Re-assemble the glass holder and protection
- Perform an operating test

Proceed as described below to change the license plate light bulb:



Figure 1



Figure 2

- Remove the tail lamp cover (figure 1)
- Remove the bulb by turning it 1/4 of a turn in the anti-clockwise direction (figure 2)
- Fit a new bulb in its housing, push it into place and turn it 1/4 of a turn in the clockwise direction.
- Fit the tail lamp cover back in place
- Perform an operating test.

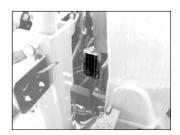
Fuses

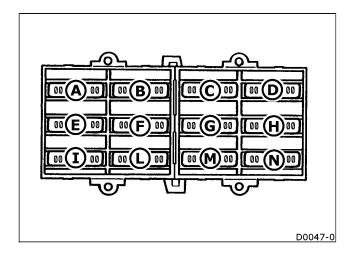
The electrical system is protected by fuses against short circuits or abnormal power draw.

Energy 60 Energy 80



3050 3050 SL 3080









Before changing a fuse, find and eliminate the short circuit that caused it to blow.

Replace the burnt-out fuses with others possessing the same technical characteristics (see indications on the actual fuse itself). Consult specialized personnel if in doubt.

FUSE FUNCTIONS: 3050 3050 SL 3080

A 10A Vacant

B ₹ 15A Emergency lig

Emergency lights switch Parking brake Brake lights.

© 10A

Right front side light. Left rear side lights. 7-pin socket. Right license plate light.

Left front side light.
Right rear side lights.
7-pin socket.
Left license plate light.
Multifunction instrument lighting

(E) ⋒ 7.5A

Power supply of engine stop solenoid. Multifunction instrument. PTO switch.

Front drive engaged indicator yellow. Preheater plant energizing.

(F) ╗10A Cab power supply

⑥ ╗7.5A Left dipped beam.

ℍ爾**7.5A** Right dipped beam.

1 20A Field light

10A

Light switch powering. Horn. 1-pin socket 12V 7-pin socket.

M 15A
Cab power supply
Emergency lights switch

Flashing headlights.

N 🕅 15A

Driving beams.

Driving beam indicator.

FUSE FUNCTIONS: Energy 60

A 🖟 10A

Light switch powering.

Horn.

7-pin socket.

B 🖟 10A

Left driving beam.

(C) 🖟 10A

Multifunction instrument.

Left rear side lights.

Left license plate light.

7-pin socket.

Left driving beam.

Cab power supply

(D) 🕅 10A

1-pin socket 12V

(E) ⋒ 15A

Flashing headlights. Emergency lights switch

(F) 🖟 10A

Right driving beam.

G 🖟 20A

1-pin socket 12V

H 🖟 15A

Emergency lights switch

Parking brake

(I) 🖟 20A

Multifunction instrument.

Front lights

(L) 🔊 20A

1-pin socket 12V

M 🖟 15A

4WD switch.

Cab power supply

N 🖟 15A

Left rear side lights.

Right front side light.

Left license plate light.

7-pin socket.

Cab power supply

FUSE FUNCTIONS: Energy 80

(A) 🕅 15A

Left driving beam. Right driving beam.

B ⋒15A

Flashing headlights.

Emergency lights switch

Revolving beacon switch

1-pin socket power supply.

Front

Horn.

7-pin socket.

(D) 🖟 20A

1-pin socket power supply.

Rear

(E) ⋒10A

Right dipped beam.

(F) ⋒10A

Left dipped beam.

(G) ⋒10A

Cab power supply

⊕ 🖟 10A

PTO switch.

Preheater plant energizing.

Alternator energizing.

Power supply of engine stop solenoid.

Engine rate sensor.

Lead variator

Multifunction instrument.

① 🕅 10A

Multifunction instrument lighting Left license plate light. 7-pin socket. Left front side light. Right rear side lights.

(L) 🖟 10A

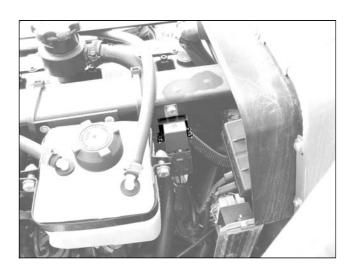
Right license plate light.
7-pin socket.
Right front side light.
Left rear side lights.

M 15A
Parking brake
Brake lights.
Differential lock

N 10A Vacant

The machine is equipped with **main fuses**. These fuses protect the entire electric system.

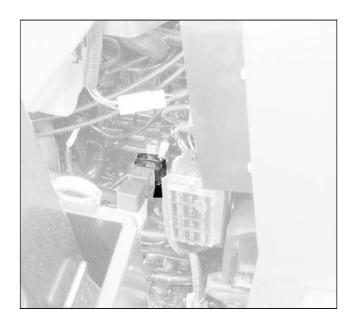
3050 3050 SL



A 🖟 50A

General protection of electrical system.

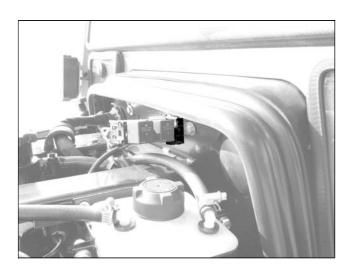
3080



♠ ♠ 40 AGeneral protection of electrical system.

B A 40A Engine preheating

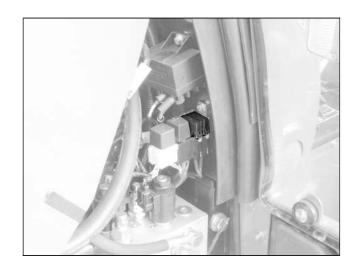
Energy 60



(A) (R) 70A

General protection of electrical system.

Energy 80



A 🖟 40A

General protection of electrical system.

(B) 🖟 40A

Engine preheating





Before changing a fuse, find and eliminate the short circuit that caused it to blow.

Replace the burnt-out fuses with others possessing the same technical characteristics (see indications on the actual fuse itself). Consult specialized personnel if in doubt.

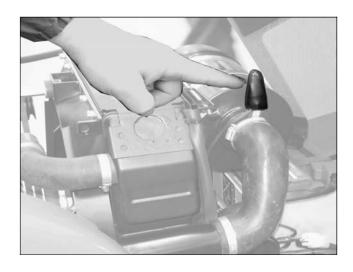
Engine air filter clogging sensor

\triangle

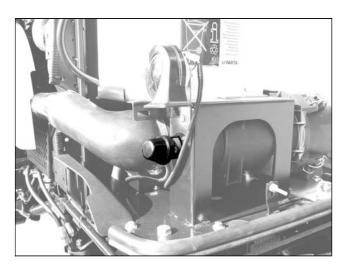
IMPORTANT

If the protection is positioned incorrectly, this could cause serious damage to the engine's air intake circuit.

3050 3050 SL Energy 60



3080 Energy 80



OCheck

Make sure that the engine air filter's clogging gauge is in the correct position and, if maintenance sork is carried out, that it is correctly assembled and protected against the outdoor weather conditions.

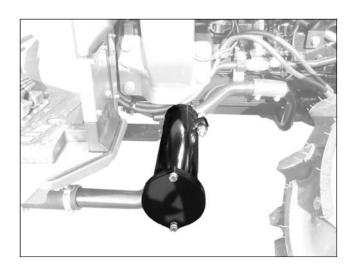
Oil filter clogging indicator

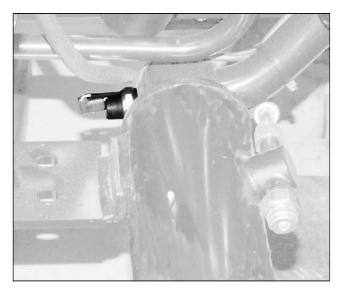
∧"

IMPORTANT

Incorrect positioning of the protection and detector could lead to hydraulic faults (loss of pressure in the power steering system, the auxiliary control valves and power lift) and incorrect internal lubrication.

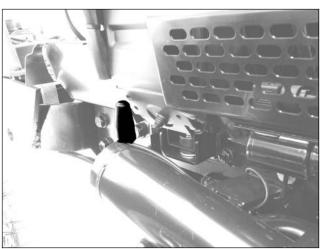
3050 3050 SL 3080 Energy 80





Energy 60





OCheck

Make sure that the engine air filter's clogging gauge is in the correct position and, if maintenance sork is carried out, that it is correctly assembled and protected against the outdoor weather conditions.

CAB





 Check and eliminate any water that may have collected in the areas covered by mats or seals.

- Protect the hinges and locks with lubricants and water-repellent products.
- Top up the windscreen washer fluid reservoir with the relative detergent products. During winter, make sure that the liquid possesses antifreeze properties.



Clean



 Keep the windows and rear-view mirrors clean so as to ensure good visibility.

Cab electrical system



WARNING

Always disconnect the battery's ground cable (negative pole with the "- " symbol) before working on the electrical system.

Glass



WARNING

All the cab windows are the spproved type. If a window breaks, it must be replaced with an original spare bearing the same approval details.

Air conditioner





Clean with compressed air



Clean with compressed air if necessary, depending on the environmental conditions in the place of work (dusty, dry, etc.), or once a week at least.

- The lateral ventilation grilles of the heat exchanger.
- The fan / heat exchanger compartment.

It is advisable to contact an authorized assistance center if there is an excessive aount of dirt in the exchanger or if the air conditioning system fails to function.



WARNING

Never carry out any work on the air conditioning system yourselves: always have such work done by specialized persons.



WARNING

Keep naked flames and heat sources well away from the air conditioning system.



WARNING

Do not loosen the unions and/or tamper with the pipes since the circuit is pressurized.



WARNING

The refrigerant gas can cause freezing of the skin and eyes.

Working lights



public highways, the headlights must If the tractor must be driven on the comply with the Highway Code regulations in force in the country of use.





Replace burnt-out light bulbs with others if identical technical characteristics indications on the bulbs themselves). Consult specialized personnel if in doubt.





Figure 1

Figure 2

To replace the bulbs in the cab lights:

- Disconnect the wiring of the defective bulb. (figure 1).
- Remove the bulb by turning it 1/4 of a turn in the anti-clockwise direction. (figure 2).
- Fit a new bulb in its housing, push it into place and turn it 1/4 of a turn in the clockwise direction.
- Connect the wiring to the bulb.
- Perform an operating test.





Figure 3

Figure 4

WARNING

In machines with cab, the light bulb wiring connection is installed in the roof. First unscrew the 4 screws that fix the roof (figure 3), then raise this latter to detach the wiring and replace the light bulb.

Ceiling light





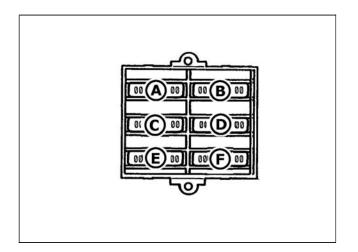
Remove the glass cover from the ceiling light by carefully levering it up with a screwdriver. Replace the bulb, test to make sure that everything functions correctly, then fit the cover back in place.

Windscreen wash system



Restore the level by using detergents and antifreeze.

Cab fuses



(A) ⋒7.5A

Windscreen wiper and window washer

B 🖟 20A

Fan switch Ceiling light

© 🖟 15A

Working beams

The fan / heat exchanger compartment.

(E) ⋒10A

Rear lights

(F) 🔊 20A

Revolving beacon





The electrical system is protected by fuses against short circuits or abnormal power draw. Before changing a fuse, find and eliminate the short circuit that caused it to blow.

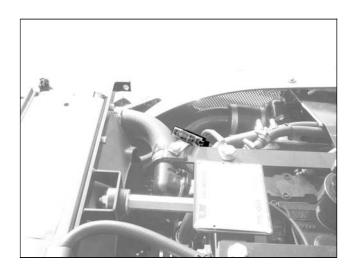
Replace the burnt-out fuses with others possessing the same technical characteristics (see indications on the actual fuse itself). Consult specialized personnel if in doubt.

The cab fuses are positioned on the ceiling of the cab itself, on the right-hand side. The system is protected by a 40A maxi main fuse situated

inside the cab roof (see wiring diagram).

Fuses to protect the electrical circuit of the cab.

Energy 60



A 🖟 40A

General protection of the cab's electrical system Only on machines with the cab assembled

Energy 80



A 🖟 40A

General protection of the cab's electrical system Only on machines with the cab assembled

Cab air filter





Figure 1



Figure 2





Figure 3

Figure 4



Clean with compressed air



Unscrew the knob that fixes the protection (figure 1), remove the protection (figure 2), take out the filter (figure 3) and clean it:

carefully tap the filter on a hard, flat surface with the perforated part pointing downwards.

Gently blow compressed air at a pressure of no more than 7 bar through all the pleats (figure 4) in the direction opposite to that of the arrow stamped on the filter itself.





300

Replace the filter when required, or at least after every 300 h service or 12 months.

Activated carbon filter

Replace the filter when required, or at least after every 200 h service or 36 months. For maintenance, follow the instructions provided by the manufacturer.

BODYWORK

WARNING

If you use jets of pressurized water for cleaning, direct the jet well away from:

- Components of the electrical system.
- **Tyres**
- Hydraulic pipes
- Radiator.
- Electrical components.
- Soundproofing seals.
- Other components that could be damaged by the pressure of the water.



Periodically check the condition of the bodywork. To ensure long life, have abrasions and deep scratches repaired by specialized personnel. Make sure that water does not remain in hidden parts of the bodywork.



Clean

Clean the bodywork with a normal solution of water and a specific shampoo:

- When needed if the tractor is used in a normal environment.
- Frequently if it is used in places near the sea.
- Immediately after using organic substances or chemicals.



Do not discard fluids like fuels, lubricants, coolants or other, in the environment.

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

			3050 3050 SL	3080	Energy 60	Energy 80	
	Туре		VM D703 E3	VM D754 TE3	VM D703 TE3	VM D754 TE3	
	Rated power	Kw (hp) / rpm	35 (48) / 2600	55,2 (75) / 2600	43 (58) / 2600	55,2 (75) / 2600	
	Cylinders	N	3	4 Turbo	3 Turbo	4 Turbo	
Engine	Cooling			Wa	ater		
	Displacement	СС	2082	2970	2082	2970	
	Torque reserve		14%	14% 23% 29% 24%			
	Fuel tank	L	50				

			3050 3050 SL	3080	Energy 60	Energy 80		
	N° speed gears	ı	•	zed reverse	sed to select the 8+8 to shuttle or the 16+8 tra ized Dual Power (-20%	nsmission with		
	Clutch		9"	10"	9"	10"		
	Clutch		Dry single-plate					
Transmission	Direction reverser	1	Synchronized					
Transmission	Rear differenti lock	al	Mechanical					
	Front differenti lock	al	/ Nospin					
	Speed	Kph	30			40		

	Type of brakes	oil-cooled multiple-plates
Brakes and steering system	Type of steering system	Hydrostatic with load sensing valve
	Steering angle	55°

			3050 3050 SL	3080	Energy 60	Energy 80	
	Rear	Speed		540)/540E (750 l	Rpm)	
	Clockwise rotation	Туре		Indepe	ndent Sync	hronized	
	Clockwise rotation	Clutch	Dry plate type				
Power take-off	1-3/8" profile with 6 splines	Control	Mechanical				
Fower take-on	Front	Speed				1000 Rpm	
	Counter-clockwise rotation	Туре				Independent	
	Counter-clockwise rotation	Clutch				Electromagnetic	
	1-3/8" profile with 6 splines	Control				Electrical	

			3050 3050 SL	3080	Energy 60	Energy 80		
		Type			With pos	sition and draft	control	
	Rear	Lifting capacity	Kg	2300				
Power lift		3-point hitch		Cat. 1 and 2				
Powerint	Front	Туре					Up-down	
		Lifting capacity	Kg				1000	
		3-point hitch					Cat. 1 and 1N	

			3050 3050 SL	3080	Energy 60	Energy 80
	Pump capacity	lt/min.			38	
Hydraulic circuit	Rear hydraulic control va	alves			Up to 3	
	Front hydraulic control v	alves				Up to 3

		3050 3050 SL	3080	Energy 60	Energy 80	
	Platform	Platform Integr		Integral platform	on silent-blocks	
	Safety frame.	Folding ro	oll bar	Folding roll bar or cab		
. .	Instrumentation	Multif	unction an	alog instrument Digital		
Driver's position	Seat	Adjustable		zontal and vertical direc pproved elastic suspen		
	Tow hook	Type CUN/CEE Cat.Type BT01				

DIMENSIONS AND WEIGHTS

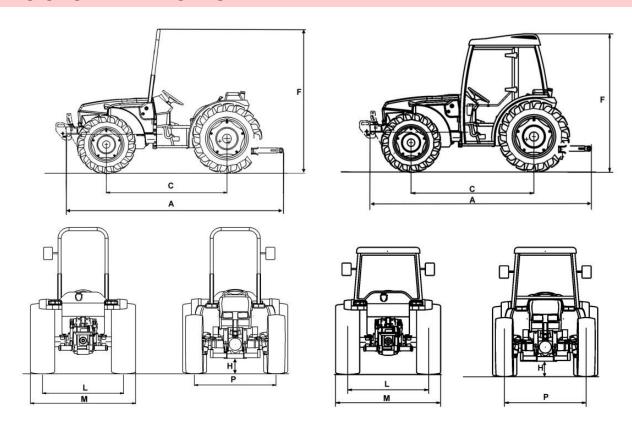


Table of Machine Dimensions and Weights

The data are calculated with wheels: Rear 320/70-R24" Front 240/70-R16"

			3050 3050 SL	3080	Energy 60	Energy 80
			L	ow version	(High version	on)
Α	Max length	mm	3098	3231	3090-3455	3231-3596
М	Min - max width	mm	1340-1770	1318-1794	1290-1766 (1293-1766)	1290-1770 (1293-1770)
F	Height to chassis mm		1975 (2045)	2089	2000-2071 (2150)	2081-2145 (2196-2214)
F	Cab version	mm			2050-2130 (2218)	2054-2159 (2184-2209)
н	Ground clearance	mm	230 (300)	222	167-243 (331)	170-269 (306-329)
С	Wheelbase	mm	1690	1831	1690 (1706)	1831 (1854)
Р	Min - max Front track	mm	1040-1400	1038-1414		-1414 -1447)
L	L Min - max Rear track mm		1010-1460	938-1474	998-	1474
	Minimum turning radius with brakes mt		3	3,2	(3
	Weight with safety frame	Kg	1850	1900	1850-1920	1930-2075
	Weight with cab	Kg			2030-2100	2070-2240

Engine

For the engine dimensions and weights:



See engine's operation and maintenance manual.

Maximum load per axle



For information about the maximum loads per axle, refer to the **certificates of conformity** supplied with the machine

	Low version								
		Loading capacity	Maximum load per axle (kg)	Total weight					
Model	Tyres	Kg	Rear Front	Kg					
0050	41/14.00-20" 27/8.50-15"	1397 660	1950 1100	3050					
3050 3080 Energy 60	360/70-R20" 11.0/65-R12"	1400 1170	1950 1100	3050					
Lifergy 00	320/70-R24" 240/70-R16"	1340 900	1950 1100	3050					
	41/14.00-20" 27/8.50-15"	1397 660	1950 1100	3050					
Energy 80	360/70-R20" 11.0/65-R12"	1400 772	1950 1100	3050					
Ellergy 60	320/70-R24" 240/70-R16"	1340 900	1950 1100	3050					
	360/70-R24" 260/70-R16"	1500 1030	1950 1100	3050					

High version								
		Loading capacity	Maximum load per axle (kg)	Total weight				
Model	Tyres	Kg	Rear Front	Kg				
3050 SL Energy 60 AL	320/70-R24" 240/70-R16"	1340 900	1950 1100	3050				
320/70-R24 240/70-R16		1340 900	1950 1100	3050				
Energy 80 AL	360/70-R24" 260/70-R16"	1500 1030	1950 1100	3050				

WHEELS

Tyres



WARNING

The tyres must only be changed by competent persons in possession of the necessary equipment and technical know-how.



DANGER

- Improper use.
- Overloads (even localized).
- Unsuitable pressure.
- Unsuitable rim and tyre couplings.

Tyre life and performance depends on use of the correct operating pressure: if the pressure is too low, the tyre will quickly wear out while an excessive pressure will reduce the lugging power and make the wheels more liable to slip.

A correct tyre pressure depends on various factors:

- The operating conditions.
- Machine load.
- Machine model.
- The tyre make.
- The tyre size.

You are therefore advised to consult your dealer or the tyre manufacturer.

The values given below are only approximate as they depend on the conditions described above:

Table of tyre inflation pressures

L	ow version		F	ligh version	
Tyres	Bar (MAX)	Position	Tyres	Bar (MAX)	Position
41/14.00-20" 27/8.50-15"	1,6 2,4	Rear Front			
360/70-R20" 11.0/65-R12"	1,6 2,4	Rear Front			
320/70-R24" 240/70-R16"	1,6 2,4	Rear Front	320/70-R24" 240/70-R16"	1,6 2,4	Rear Front
360/70-R24" 260/70-R16"	1,6 2,4	Rear Front	360/70-R24" 260/70-R16"	1,6 2,4	Rear Front

SPEEDS

Speed Chart

In ${\bf kph}$ with engine at 2600 Rpm and 320/70-R24" wheels (Speeds are purely indicative)

3050 3050 SI		Dual Powe	r mode (16-8 speeds)	Reverse shuttle mode (8+8 speeds)
3080 Energy 6	0	Normal speeds	20% Dual Power reduction	
	1°	1,34	1,00	1,34
Forward	2 °	2,21	1,65	2,21
Slow	3°	3,80	2,84	3,80
	4°	5,50	4,14	5,50
	1°	7,63	5,72	7,63
Forward	2°	12,56	9,42	12,56
Fast	3°	21,68	16,26	21,68
	4°	31,36	23,52	31,36
	1°	3,19	2,40	1,14
Reverse	2 °	5,26	3,94	1,87
Slow	3°	9,07	6,81	3,23
	4°	13,13	9,85	4,67
	1°	/	/	6,48
Reverse	2 °	/	/	10,67
Fast	3°	/	/	18,42
	4°	/	1	26,66

In **kph** with engine at 2600 Rpm and 360/70-R24" wheels (Speeds are purely indicative)

Energy 80		Dual Powe	r mode (16-8 speeds)	Reverse shuttle mode (8+8 speeds)
		Normal speeds	20% Dual Power reduction	
	1°	1,61	1,21	1,61
Forward	2 °	2,65	1,99	2,65
Slow	3°	4,58	3,44	4,58
	4°	6,63	4,97	6,63
	1°	9,20	6,90	9,20
Forward	2°	15,14	11,36	15,14
Fast	3°	26,14	19,60	26,14
	4°	37,82	28,36	37,82
	1°	3,85	2,89	1,37
Reverse	2°	6,34	4,75	2,26
Slow	3°	10,94	8,21	3,89
	4°	15,83	11,87	5,63
	1°	/	/	7,82
Reverse	2°	/	/	12,87
Fast	3°	/	1	22,22
	4°	1	1	32,14

NOISE

Table of maximum noise levels

TRACTORS WITH ROLL-BAR					
Model	Variant/version	Type-approval N°	Maximum perceived at d	Noise level of the moving tractor dB	
			Chapter I	Chapter II	
3050	TL5100B	e1*2003/37*0280	-	86	84
3050 SL	TL5100A	e1*2003/37*0280	-	86	84
3080	TL7100B	e1*2003/37*0280	-	86	76
Energy 60	TL6100A TL6100B	e1*2003/37*0280	-	86	77
Energy 80	TL7110A TL7110B	e1*2003/37*0280	-	86	75

TRACTORS WITH CAB						
Model	Variant/version	Type-approval N°	Maximum noise level perceived			Noise level of the moving tractor dB
Chapter I Chapter II						
				Opening open	Opening closed	
Energy 60 GL10	TL6000A TL6000B	e1*2003/37*0280	-	85	84	77
Energy 80 GL10	TL7010A TL7010B	e1*2003/37*0280	-	84	84	75

Noise level information



the tractors described in the Operation The values of the noise produced by and Maintenance Manual, are given in compliance with Directive 77/311/EEC concerning noise levels perceived by the driver of wheeled agricultural tractors.



Since it is impossible for the manufacturer to foresee the normal working conditions in which the agricultural tractor will be operated by the user, the noise levels have been defined in accordance with the methods and conditions conforms to Directive 77/311/EEC (repealed by 2009/76/EEC) concerning noise levels perceived by the driver of wheeled agricultural tractors.

Annex 6 of directive 2009/63/EEC concerning the noise level of the moving tractor.

Recommendations for the user





IMPORTANT

Remember that the agricultural tractor may be employed in different ways, and may be connected to an infinite number of implements. In order to ensure that drivers are protected against risks deriving from exposure to noise. the entire implement must group be considered.





In view of the above-mentioned noise levels and the consequent health risk, the user must adopt the appropriate precautionary measures. required as regulations in the country.

RECOMMENDED LUBRICANTS AND FLUIDS

Original lubricants

Genuine Lubricants ARBOR by PETRONAS LUBRICANTS

ARBOR ALFATECH SYNT 10W-40 oil

- Viscosity at 100° C (mm2/s) 14
- Index of viscosity 158
- Flash point V.A. (°C) 200
- Pour point (°C) -33
- Mass Volume at 15 °C (kg/l) 0.875

ARBOR UNIVERSAL 15W-40 oil

- Viscosity at 40° C (mm2/s) 110
- Viscosity at 100° C (mm2/s) 14
- Viscosity at -15° C (mPa.s) 3450
- Index of viscosity 135
- Flash point V.A. (°C) 220
- Pour point (°C) -36
- Mass Volume at 15 °C (kg/l) 0.886

ARBOR TRW 90 oil

- Viscosity at 40° C (mm2/s) 135
- Viscosity at 100° C (mm2/s) 14.3
- Viscosity at -26° C (mPa.s) 108000
- Index of viscosity 104
- Flash point V.A. (°C) 220
- Pour point (°C) -27
- Mass Volume at 15 °C (kg/l) 0.895

ARBOR MTA oil

- Viscosity at -40° C (mPa.s) 28000
- Viscosity at 40° C (mm2/s) 35.5
- Viscosity at 100° C (mm2/s) 7.5
- Index of viscosity 160
- Flash point V.A. (°C) 200
- Pour point (°C) -40
- Mass Volume at 15 °C (kg/l) 0.870
- Colour red

ARBOR MP Extra grease

- NLGI grade 2
- Manipulated penetration (60)(dmm) 285
- Dropping point (°C) 190
- 4 weld load balls (kg) 300
- Basic oil viscosity at 40°C (mm2/s) 200

Original protective fluids

ARBOR original protective fluids by PETRONAS LUBRICANTS

PARAFLU 11 antifreeze fluid

- Density at 15°C (g/cc) 1.135
- pH (dil. 50%) 7,7
- Alkaline reserve (ml HCl 0.1 N) 16
- Boiling point (dil. 50%) (°C) 108
- Graining point (dil. 50%) (°C) -38
- Foam at 88°C (cc) 50

PROBLEMS AND SOLUTIONS

GENERAL

Engine

Engine

Engine: does not start

- Check the condition of the battery:
 - check the battery terminals: make sure that they have been tightened correctly, remove any turn or or tarnish;
 - either recharge or replace the battery if it has discharged
- Check the starter motor
 - o have this done by a motor-vehicle electrician

Engine: difficult to start

- Check:
 - Fuel level
 - Whether the fuel filter is clean (replace it if necessary)
- Injection system efficiency
 - Check whether there is air in the circuit: bleed the circuit if necessary. If the engine is still difficult to start, check the injection pump settings and injectors.
 - Check the glow plug preheating system. This operation may only be carried out by an authorized workshop
 - Not enough compression. Have the compression checked by an authorized workshop

Light coloured smoke from exhaust

- Inefficient injectors: have the injectors checked by an authorized workshop
- Injection pump fase not in the best condition: have the machine checked by an authorized workshop

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IDENTIFICATION CARD OF THE MACHINE

We will be able to provide you with better and faster service if you fill out the form below. Please give the information indicated in this page for a clear and immediate reply (whenever you call the Technical Assistance Service or the Spares Assistance Service)

Type of machine	
Model / Version	
Identification number (serial number).	
Series	
Information abou	nt manufacturer and/or importer
Name	
Address	
Telephone / internet / email	
Owner or operate	or
Name	
Address	
Telephone / internet / email	

DECLARATION OF CONFORMITY





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THAT THE MACHINE

CHEIA MCCHINA: QUELA MCCHINE: DASS DIE MASHINE: QUELA MQUINA: QUEA MQUINE: NE BALBIHATA - ZESTROJ - AT MCKINEN - ET MASN - OTI TO MIXAMHINA - IAXO MASNA - IAX JEKĀRTA - HOOY A GEP - IIII-RAJBJA - DAT DE MCCHINE: ZE BUSATA - ECHIPAU ENTUL TEHNO - ZESTROJ - DASTROJ-ETTA KOJE - AT THASK KINE - AN PELIZARDA - AT MASKINEN - LANDAR

MACHINE TYPE:

AGRICULTURAL TRACTOR

TRATTORETIMO. TYPE DETRACTEUR. ACKESSÓLEFRETYY. TRO DETRACTOR. POD BIO BETRÁCTOR. TRO TYPANTO P. TRAKTOR TYPU. TRAKTORTYKE. TRAKTORTÚJE. TYPO ETRAKTER. TRAKTORIAUS TRAK. TRAKTORA TRO. TRUSÚ TRAKTOR. TR TX TRATTUR. TYPETEKSKI. CUPPIKTYY. JARCZIO ULI 19. TRAKTOR TYPU. TRYTAKTORA. TRAKTORA TYPI. TRAKTORTÝ. TEDUNO TRAKTORS. TRAKTORTYK. TRAKTOR TIPI

MACCHINATIFO. MACHINETYPE, MASCHINETYP. MÁQUINATIFO. MÁQUÍNATIFO. TUN MAUMHA. STROJ TYPU. MASKNTYPE. MASINATÜÜP. Tynoz mixarhinato. Masinostras. Megratas tips. Tipuga gep. tiput magna. Type machine. Maszynatyp. echipamentultehno Tip. Stroj typu. Tip traktorua. Moken typpi. Masknytyp. tegünü velteris. Masknytype. makkir pa

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MODEL NAME:

NOME GEL NOBLIG. NOM ST. PÉDELE: PROBLE SAN ME. NOMES ST. PODED. NOM DE PROBLO. NAMERIOTANHE NA HOLBER: ARZEVINO PLU MEDILANNE, HIDELINISTIS, STOULTON HONTENOV. NEDGLE, MODEL, MOSAUGHIS. HOCELL NEVEL CHES THE HOLBER, MANYAN HET PODE L. MAZON HODE LU. HOZEV HODE LU. KAZIV MODELA. HALLIN NIMI. MODELLETECKNING. (MEN DERBAR: MODELNAW). HODELAD

ENERGY 60

SERIAL NUMBER:

NUMBER DISENE. Number & New, SELENNUMBER. Nymer de New. Nimer de New. CEPUEH HOUSE - VYRO INI CISLO. Serenumber. Seen number. Repende Eripa. Seringe Number. Serenum Number. Gorozat zaziar. 1.-len it be-dele. Serenumber. Number Serin. Number de Gerine. Vyro inič cislo. Seriyakstevilka. Serianumber. O. Selenum Mere. .

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FULFILLS ALL RELEVANT PROVISIONS AND ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:

SODER NUTTE ECON CONTROL REQUESTED SECRETAL PRINCIPLE AND RESTORANCE DISTRICT SECRETAL SECRETAL PRINCIPLE AND RESTORANCE AND R

DIRECTIVE DIST THE - DIRECTIVE - DIRECTIVE - DIRECTIVE - SHIPSTON CE - DIRECTIV - DIRECTIVE - DIRECTIV	NUMBER NONEO - NOMBER - NÜMERO - NÜMERO - HÜMERO - HÜMERO - KÜMERO - NÜMERO - NÜMERO - NÜMERO - NÜMERO - NÜMERO - NÜMERO - KÜMERO - KÜMERO - NÜMERO - NÜMERO - KÜMERO	CERTIFICATION METHOD METHOD IS CENTRADON. METHOD OF CENTRADON. JENTREBUNGMETHODS JULIOU DE CENTRADON MÉTIOD METHOD DE CENTRADON. MÉTHOD CE CENTRADON. JENTREBUNGMETHODS JULIOU DE CENTRADON DE CENTRADON DE CENTRADON DE CONTREBUNGMETHOD L'ACTUAL DE CONTREBUNGMETHOD L'ACTUAL DE CONTREBUNGMETHOD CENTRADON DE CENTRAD
MACHINERY DIRECTIVE DIRETTIA PROCHINE. DIRECTIVE CONCRINATE PROCHING. MICHINER CHIQINE DIRECTIVA DE PROJUMBADA. DIRECTIVE CONCRINATE PROCHING. INGUINHER DEPERDA SHENKE E O GIROLINE PLAZAR ENCH. HOVING DIRECTIVE DIRECTIVE MORNAD. COMPTA DIRECTIVA AD LABOR. HOVEN PROCHESTOR LINESTIMA DIRECTIVA SENSON. DIRECTIVA AD LABOR. HOCH RECTIVELY. DIRECTIVA SENSON. DIRECTIVA AD TIME. HOCH ROCKETTU. HOS MODIFIES TOWN. AND CENTRO. HOSDINGRETHOS TOWN. HOCH ROCKETTU. HOSPICATIVE AND CHICAL HOSPICAL HOSP	2006/42/EC	Self-e-ptification, per Commission Working Document ENTR-80-1, 6 Jan 2006 National Activation and Self-education (Self-education) as sensitiving many and it are highlate of thirtical 6, pages 2004. As herefore the high by Americanian Medication (Self-education) and the self-education (
ELECTROMAGNETIC COMPATIBILITY	2004/I 08/EC	Self-certification Autocrification - Autocrifica

NAME AND ADDRESS OF THE PERSON AUTHORIZED TO COMPILE THE TECHNICAL FILE:

GOLDONI S.p.A. Via Canale 3 41012 Migliarina di Carpi (MO)

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Migliarina di Carpi (Italy)

Signature

Frma - Signatura - Unterschrift - Frma - Astinatura - Rogillo - RODFS - Underskrift - Alkri - YROFF AGH - FARAŠAS - Paraks ti -ABlitat - Immat - HANOTEKENING - ROD PS - SEMNATURA - Podpis - RODFS - Alikeljenus - Nameteckeng - Unditaktift - Underskrift - In 72

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GOLDONI S.p.A. a s.u. Via Canale, 3 - 41012 Migliarina di Carpi - Modena - Italy • Tel +39 0522 460111 - Fax +39 0522 699002 • info@goldoni.com; • PEC: goldonispa@legalmail.it • goldoni.com • PIVA / VAT, CF e Iscrizione Registro Imprese N°: 00171300361 - CCIAAN.REA: MO/72133 Direzione e coordinamento: LOVOL HEAV? INDUSTRY Co. LTD. • Capitale sociale i.v. / Share capital € 1.000.000

EC DECLARATION OF CONFORMITY

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THE UNDERSIGNED

ILSOTTOSCRITTO - JESOUSSCRITE - DER UNTERZEICHNER - YO SUSCRITTO - EU ALAMO ASSINADO - DORRIGO ANUR, - NEZ PODE PESAN? - UNDERTEGNEDE - ALLKKRUITANU - O Impoptou - SEPRIMO MOSNES, PARANSTITUS - SU UNDETT - CB. Ingles of limma 1 sun et att. - Odacygnidae - de. Nej poptour - Servenneni - DOLUMOD FISANY - Bejta air - ALLERGOTTANUT - UNDERTEGNED - SERTIGISTES - SERVENNENI - DOLUMORTANUT - UNDERTEGNED - SERTIGISTES - SERVENNENI - DOLUMORTANUT - DESTRUCTOR -

Cavallini Daniele

GOLDONI S.p.A. Via Canale 3 41012 Migliarina di Carpi (MO) ITALY

HEREBY CERTIFIES

CERTIFICA - CERTIFIC - LECHEMET - CERTIFICA - CERTIFICA - CEPTE MULUPAIL - POTVIRZUME
- SEXULERES - TO MENTAL - REPAIRME - PROTECTION - A CONVITION - LOCKMEN - CERTIFICEST
- CERTYROUGI - CERTIFIC DENATIONALE - POTVIRZUME - OTTORIQUE - ANOTHER - NORMANDA - SEMPLESTEN RE HE HE CENTLAGES. BEVAN ETH ENT EDITED

THAT THE MACHINE

CHEIA INCCHINA: QUELA INCHINE: DAS DIE MASHINE: QUELA INQUINA: QUEA MAQUINE: YE INAUMATA: ZESTROJ: AT MAKINEN: ET MASIN - OT TO MIXAMHMA: KAO MASINA: NA IERARTA: ANO AG ET: MIRAMADI. DAT DE NACHINE: ZE MASCINA: ECHTAME INTUL TERM C: ZESTROJ: AT THOKING IN: AO LEUZEROD: AT MAKINEN II. MASME

MACHINE TYPE:

AGRICULTURAL TRACTOR

MOCCHIMATIFO - MACHIMETYFE MASCHIMETYF MÁQUIMATIFO - MÓQUÍMATIFO - TUTI INJUNHA - STROJ TYPU - NESKRITYFE - NASINATUUP -TYTOG HAKANHUNTOG - NASINOSTREAS - NEKRITASTIFS - TEUSÓFÉF - TOUTMAND A- TYPE MACHME - NASZWATYF - ECHIPANERTULTERNC TH - STROJ TYPE - NASINETH - NEKRITYFEF - NEGNATYFE - TEONOM VETERÁS - NASINETYFE - NASINETH -

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MODEL NAME:

NOTE OF HOUSE - HOUSE HOUSE SEAVER, NOMES OF HOUSE, HOUSE,

ENERGY 80

SERIAL NUMBER:

NUMBER DUSENT, REPER DE SER SERVENTERE, MEMORIA MEN, NUMBER ALVA, CESTER HOLES, VIRRO SULCISCO. SCRICHIMERA, SERVEN MIRIES, ARMONICETERAS, SERVEN DUVERES, OSCHOLANO, DUVIDURO, SORIONO Y GESTAR, NUMBER SER I NUMBER DE SERIE - MYRO SHEČEDIO - SERIPINATEVIKA, SARJANDHENO, SERIENUMHER. PARADORER: SERVENDWERS, SER NUMBERSEI

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FULFILLS ALL RELEVANT PROVISIONS AND ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:

DIRECTIVE UNIT IN . DIRECTIVE . BOTTON . DIRECTIVA . DIRECTIVA . SAGETIVA . SAGETIVA . DIRECTIV . UNICATIV . CANA . DIRECTIVA . DIRECTIVA . DIRECTIVA . ROTTON . DIRECTIVA . ROTTON . DIRECTIVA . ROTTON . DIRECTIVA . DIRECTIVA . SAGETIVA . DIRECTIVA . DIRECT	NUMBER NUMBER - NÜMERD - HÜMERD - HÜMERS - SEÄN - HÜMERÜ - HÜMERE - NÜMERR - NÜMER - SEÄN - HÜMERÜ - HÜMERR - NÜMERR - NÜMERR - SEN - STERRICK - HÜMERD - HÜMERR - NÜMERR - NÜMERR - SEN - STERRICK - NÜMERR - NÜMERR - NÜMERR - SEN - STERRICK - SEN - STERRICK - NÜMERR - NÜMERR - NÜMERR - SEN - STERRICK - STERRI	CERTIFICATION METHOD NETHOD IS SERVICENCE, MENTODE SE CENTRACIÓN - SERVICENCE - CENTRACIÓN SE CENTRACIÓN - MÉTODO SE CENTRACIÓN - MÉTODO SE CENTRACIÓN - MÉTODO SE CENTRACIÓN - MÉTODO SE CENTRACIÓN - METODO SE CENTRACIÓN - SERVICENCE - CENTRACIÓN - SERVICENCE - METODO SERVICENCE - SERVICENCE - SERVICENCE - METODO SERVICENCE - SERVICENCE - SERVICENCE - METODO SERVI
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NAME AND ADDRESS OF THE PERSON AUTHORIZED TO COMPILE THE TECHNICAL FILE:

INDER THE ADDRESS OF THE FERSION AND INVALED TO CONTRIBUTE THE TECHNIQUE THE PROPERTY OF THE P

GOLDONI S.p.A. Via Canale 3 41012 Migliarina di Carpi (MO)

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Signature

Frma - Signature - Unterschrift - Frma - Assinatura - Royallo - RODFS - Underskrift - Alkyl - YROFFAAH - PARAŠAS - Paraks tr -Alālās - Imimat - HANDTEKENING - RODFS - SEMNĀTURA - Podpk - RODFS - Alaksyjahus - Nanntschang - Undirskrift - Underskrift - In 22

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