Series 15
Tigre 4000

Series 17
Tigre 4400 F

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Use and maintenance

Translation of the "ORIGINAL INSTRUCTIONS"

Ed. June - 2016
Code 47302483/02

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Use and maintenance manual supplied with the tractor identified by the elements listed.

Tractor model..... Serial number..... Year of manufacture.....

Antonio Carraro S.p.A.
Via Caltana, 24 - 35011 Campodarsego Padova Italy
Phone +39 049 921 9921 - info@antoniocarraro.it - www.antoniocarraro.com
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CE DECLARATION OF CONFORMITY CE FOR MACHINES

(Machinery Directive 2006/42/CE, Attached II A)

Manufacturer:	ANTONIO CARRARO S.p.A.
Address:	Via Caltana, 24 - 35011 Campodarsego - PD - ITALY

Name and address of the person authorised to constitute the technical file:

Name:	(ANTONIO CARRARO S.p.A. – GENERAL MANAGEMENT)
Address:	Via Caltana, 24 - 35011 Campodarsego - PD - ITALY

We herewith declare that the machine

	Farming tractor
series/model:	17 / Tigre 4400 F
Identification n.	see the identification plate

is compliant with the pertaining dispositions of **Machinery Directive (2006/42/EC)** and successive modifications,

is compliant with the **2003/37/CE Directive**, and successive modifications, relating to approval of farming tractors

Campodarsego,
__/__/____

Signature:
ANTONIO CARRARO S.p.A.
MARCELLO CARRARO
Director General

Antonio Carraro S.p.A.
Via Caltana, 24 - 35011 Campodarsego Padova Italy
Phone +39 049 921 9921 - info@antoniocarraro.it - www.antoniocarraro.com
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Name:	(ANTONIO CARRARO S.p.A. – GENERAL MANAGEMENT)
Address:	Via Caltana, 24 - 35011 Campodarsego - PD - ITALY

We herewith declare that the machine

	Farming tractor
series/model:	15 / Tigre 4000
Identification n.	see the identification plate

is compliant with the pertaining dispositions of **Machinery Directive (2006/42/EC)** and successive modifications,

is compliant with the **2003/37/CE Directive**, and successive modifications, relating to approval of farming tractors

Campodarsego,
__/__/____

Signature:
ANTONIO CARRARO S.p.A.
MARCELLO CARRARO
Director General

1 GENERAL INFORMATION

Purpose of this manual 3
Requesting technical assistance 4
Accompanying documentation 5
Terms and definitions 5

2 SAFETY INFORMATION

Introduction to safety warnings 9
General safety warnings 10
Safety warnings for the employer 12
Safety warnings for handling and transport 13
Safety warnings for the driver 15
Safety warning regarding circulation on roads 18
Safety warnings before use 20
Safety warnings for connection and disconnection of implements (carried or towed) 23
Safety warnings during use 26
Safety warnings during use on sloping or uneven terrains 29
Safety warnings regarding use with tools (carried or towed) 31
Warnings for use with spraying tools 33
Safety warnings regarding use in forestry 34
Safety warnings regarding use with ballasts installed 35
Safety warnings at end of use 36
Safety warnings for regulations and maintenance .. 37
Safety warnings regarding environmental impact 40
Warnings on residual risks 41
description of safety signs 42

3 TECHNICAL INFORMATION

Identification of the machine and its manufacturer 44
General description of the machine 46
Description of the main parts 48
Description of hydraulic circuits 51
Description of lift unit 52
Description of the equipment on request (Tigre 4000) 53
Description of the equipment on request (Tigre 4400 F) 55
Description of devices for driving on public roads 60
description of safety devices 61
Position safety signals and information 63
Dangerous areas and zones 64

4 HANDLING AND TRANSPORT INSTRUCTIONS

recommendations for handling, loading and unloading 65
method of transport 65
loading and unloading method 66
Machine emergency towing method 68

5 INFORMATION ON ADJUSTMENTS

Recommendations regarding regulations 69
Adjusting the driving position 70
Adjustment of headlights 71
Regulation of the rear lifting unit 73
Adjustment of clutch pedal travel 74
Brake (Tigre 4000) pedal adjustment 75
Brake (Tigre 4400 F) pedal adjustment 76
Track change-over 77

6 OPERATING INSTRUCTIONS

Recommendations for use and functioning 78
Description of controls 78
Description of instruments and LEDs 79
Description of dashboard controls 81
Description of advance and stop controls 83
Description of work controls (Tigre 4000) 85
Description of work controls (Tigre 4400 F) 87
Description of power lifting unit controls (standard) 89
(Tigre 4400 F) "Controlled effort" power lift unit use 91
Description of hydraulic sockets controls 92
Description of control plates 93
Use safety arch (ROPS) 94
Access to driver's seat 95
Engine start/stop 96
Moving and stopping the machine 98
Starting the engine with flat battery 99
Set-up for driving on public roads 100
Hitching and disconnecting tool - rear power lift unit 102
Hitching and disconnecting tool - towing hook .. 104
connection and disconnection of cardan drive shaft 106
Hydraulic coupling connection 108
Electric couplings hitching 109
Wheel ballast installation 110
Formula for calculating ballasts with carried carried tool 110

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Ballasts for improved drive 111
Operating reminders 113
Refuelling 115
Prolonged machine inactivity 116
Putting the machine back into service..... 117

7 INFORMATION ON MAINTENANCE

Maintenance recommendations 118
Maintenance during the running-in period..... 119
Maintenance interval table 120
Cleaning the machine 122
Cleaning the radiator..... 122
cleaning the engine air cleaner 123
Checking the pressure of the tyres 124
Check battery charge level..... 126
Location of lubrication points..... 127
Lubricant table..... 128
Coolant composition table..... 128
Checking the engine oil level 129
Checking the engine coolant level 130
Front transmission oil level check 131
Rare transmission oil level check..... 132
Changing the front transmission oil..... 133
Changing the rear transmission oil..... 134
Changing the hydraulic oil filter..... 135
Major servicing 136

8 FAULT FINDING INSTRUCTIONS

Troubleshooting 137

9 INFORMATION ON PARTS REPLACEMENT

Part replacement instructions..... 142
gas spring replacement..... 143
Replacing the air filter 144
Changing the battery..... 145
Changing tyres..... 146
Replacing front lighting bulbs..... 147
Replacing (Tigre 4000) indicator light bulbs (rear) 148
Replacing (Tigre 4400 F) indicator light bulbs (rear) 150
Replacement of the work light lamp..... 151
replacing fuses..... 152
Disposal and scrapping of the machine 153

10 TECHNICAL DATA TABLES

Technical data tables introduction..... 154
Kerb weight 154
Machine maximum weight accepted 155
Rear power lift dimensions..... 156
Model Tigre 4000..... 156
Model Tigre 4400 F..... 157
Ballasts:..... 158
Dimensions..... 159
Engine, transmission and plants features 160
Cardan shaft..... 164
PTO features..... 165
Noise levels..... 166
Vibrations transmitted to the driver..... 166
Gradients (machine in static position) 167
Machine tracks 168
Vehicle speed..... 170
Rear towing hook 172
Italian type-approval..... 172
CE type-approval..... 173
Maximum vertical load provided for on the coupling hook..... 174
Italian type-approval..... 174
CE type-approval..... 175
Maximum drawbar pull provided for at the coupling hook, in Newtons..... 176
Italian type-approval..... 176
CE type-approval..... 176

11 ENCLOSURES

Front cabling wiring diagram 178
Dashboard wiring diagram 180

PURPOSE OF THIS MANUAL

– The purpose of this manual is to transfer the "User instructions" to the addressees (driver and operators), to prevent and minimise risks in man-machine interaction.

The information is professionally written by the manufacturer in the original language (ITALIAN), in compliance with ISO 3600:1996 and the current Standards.

To facilitate reading and understanding the information, principles of communication most suitable to the addressees characteristics have been adopted.

To know the exact definition of certain specific terms used in the manual, go to paragraph "Terms and definitions".

The information may be translated into other languages to satisfy commercial and/or legal requirements.

The manuals must be translated directly, without changes, from the ORIGINAL INSTRUCTIONS.

Every translation (including that realised by the sender or whoever introduces the machine in the linguistic area in question) must have the wording "TRANSLATION OF THE ORIGINAL INSTRUCTIONS".

– The manual addressees must know the machine features, respect the safety warnings and comply with the laws in force in the work place.

– Keep this manual safe for the working life of the machine, in a known and easily accessible place so that it is always readily available for consultation.

– Consult the analytic index to easily trace the specific subjects of interest.

– Some information may not fully correspond to the effective configuration of the delivered machine.
The eventually inserted additional information does not influence legibility and does not jeopardise the level of safety.

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– The illustrations may represent the machine without safety protections and devices, to make the information clearer and immediate.
  The illustrations without the safety protections and devices MUST NOT be taken as reference during the normal operation of the machine.

– The manufacturer reserves the right to change the information without prior notice of any kind, as long as these modifications do not alter the safety level.

– The symbols represented and described below are used to highlight particularly important text or specifications.

Danger
Warning

The symbol identifies situations of imminent danger which, if ignored, lead to serious risks to personal health and safety.

Caution
Precaution

The symbol identifies situations in which it is essential to behave in a certain way to avoid risks to personal health and safety and risks of damage to equipment.

Important

The symbol identifies specially important technical and operational information that must not be ignored.

REQUESTING TECHNICAL ASSISTANCE

– Contact the manufacturer's Technical Assistance Service for technical assistance requirements.
  When making a request for technical assistance relating to the machine, indicate the details shown on the i/d data plate, the approximate number of hours operation, and the nature of the defect.

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ACCOMPANYING DOCUMENTATION

Customers receive the following documentation along with this manual.

– Operation and service manual for the motor

– Certificate of warranty

– CE Declaration of Conformity
  The CE Declaration of Conformity is issued for machines introduced into the European Community States.

TERMS AND DEFINITIONS

The list shows some terms and definitions, with a brief explanation of the meaning to facilitate understanding when reading.

Terms

– **CATEGORY 1 (cab):** the code identifies that the cab DOES NOT have a specific protection for the driver during the spraying of plant protection products.

– **IPD (Individual Protection Devices):** must be worn by the operators, depending on the type of risk, to protect their safety during work.

– **EGR (Engine Gas Recirculation):** the code identifies the motor exhaust gas recirculation plant valve.

– **FOPS (Falling Objects Protective Structure):** the code identifies the structure that protects the driver in the event of falling objects.

– **OPS (Operator Protective Structure):** the code identifies the structure that protects the driver in the event of side penetration of objects.

– **ROPS (Roll Over Protective Structure):** the code identifies that the safety arch and cab/frame structures are approved and reduce risks of injury for the driver in case of overturning.

Definitions

Some definitions are written in simplified form (e.g. "machine stopped in safe condition") without repeating the full explanation to avoid excessive redundancies.

Machine stopped in safe conditions

This state foresees the listed conditions to be carried out in the indicated order.
- Position the machine on to a stable and flat surface.
- Engage the reverser lever in the "forward gear" or "reverse gear" position. (if present)
- Position the gearbox lever in "first gear".
- Engage the parking brake of the machine.
- Deactivate the PTO of the machine.
  a) With equipment carried: lower the power lift unit until it rests on the ground.
  b) With equipment towed: engage the parking brake of the equipment.
- Switch off the engine and remove the ignition key.
- Place the safety wedges below the wheels to improve stopping conditions.

Machine parked and on in safe conditions

This state foresees the listed conditions to be carried out in the indicated order.
- Position the machine on to a stable and flat surface.
- Bring the reverser lever to the "neutral gear" position. (if present)
- Bring the gearbox lever to the "neutral gear" position.
- Engage the parking brake of the machine.
- Deactivate the PTO of the machine.
  a) With equipment carried: lower the power lift unit until it rests on the ground.
  b) With equipment towed: engage the parking brake of the equipment.
  Place the safety wedges below the wheels if operating conditions so require.

Machine operation

The definition indicates "all intended uses where man-machine interaction happens".
The man-machine interaction includes, for example, transport, driving, use, routine maintenance, etc.

"Cab" version machine

The definition indicates "driver's seat equipped with closed cab". May also be with air conditioning system.

"Frame" version machine

The definition indicates "driver's seat equipped with cab without doors and lateral windows".

Ordinary maintenance

The definition indicates "the set of service operations that must be performed in order to keep the machine functional and fully effective".
The routine maintenance is normally scheduled by the manufacturer, who states the intervals and the necessary instructions.

Service Engineer

The definition indicates "a person who has received the necessary qualifications and instructions to perform interventions without risks and is authorised to do so".

Major servicing

The definition indicates "the set of service operations that must be performed in order to keep the machine functional and fully effective".
The extraordinary maintenance is not described in the "use and maintenance" manual and must be executed by the service engineer.

Authorised service centre

The definition indicates "structure selected and authorised by the machine manufacturer to perform routine and extraordinary maintenance".

Residue risk

The definition indicates "all residue risks despite all safety solutions have been used and integrated during designing".

Operator

The definition indicates "staff with recognised capacities able to interact during the different working phases of the machine".

Carrier

The definition indicates "staff with recognised capacities in charge of loading and unloading the machine onto transport means".

Incorrect use

The definition indicates "different use of machine to that indicated in the user manual, that may derive from the easily predictable human behaviour".

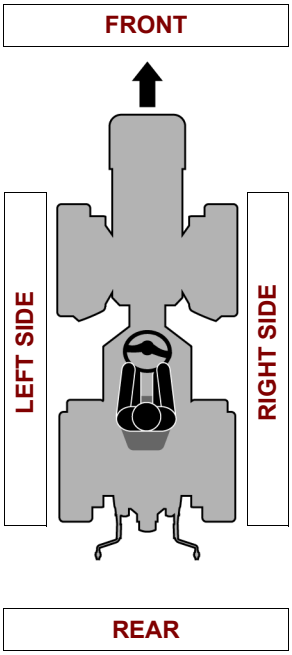
Dangerous area

The definition indicates "any area around and/or near the machine, in which an individual constitutes a personal risk to health and safety".

Driver

The definition indicates "staff with recognised capacities able to drive the machine during the different working phases".

The illustration carries the directional preferences used in the manual.



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INTRODUCTION TO SAFETY WARNINGS

– The "Safety information" section contains the warnings to make the addressees (driver and operator) interacting with the machine pay particular attention".

– The information recalls attention on the behaviours to have, in order to minimise risks during man-machine interaction.

– The list shows the safety warnings divided according to operational activity.

– **General safety warnings**

– **Safety warnings for the employer**

– **Safety warnings for handling and transport**

– **Safety warnings for the driver**

– **Safety warning regarding circulation on roads**

– **Safety warnings before use**

– **Safety warnings for connection and disconnection of implements (carried or towed)**

– **Safety warnings during use**

– **Safety warnings during use on sloping or uneven terrains**

– **Safety warnings regarding use with tools (carried or towed)**

– **Warnings for use with spraying tools**

– **Safety warnings regarding use in forestry**

– **Safety warnings regarding use with ballasts installed**

– **Safety warnings at end of use**

– **Safety warnings for regulations and maintenance**

– **Safety warnings regarding environmental impact**

– **Warnings on residual risks**

Also reported in the safety warnings are the INCORRECT USES associated with the relative operational activity.

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Important

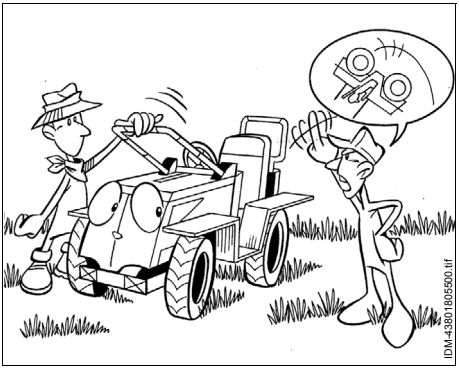
The safety warnings are also repeated in view of operational phases, to emphasise the necessary caution and behaviours the operators must have.

GENERAL SAFETY WARNINGS

The general safety warnings indicate some principles that must be respected during man-machine interaction, to prevent and minimise the risks throughout the life-span.
Accidents (often serious) involving the use of farming implements and machines depend on many factors.
One factor that may affect safety is often the environmental condition when working, where it is not always possible to foresee all risks.
Other factors that may determine risks during man-machine interaction, are the poor attention, the behaviours and incompetence of the operators.

– As well as complying with the laws in force, during designing the manufacturer has adopted all correct manufacturing techniques.
The Evaluation of Risks has been carried out to identify the limits of use, the dangers and estimate risk to protect personal safety.

– It has arisen from the Evaluation of Risks that the machine has been equipped with all devices that make safety intrinsic.
– The incorrect or "negligent" use of the machine by the driver can cause accidents (even fatal) despite the adopted safety solutions.
– Use the machine ONLY with original safety devices installed by the manufacturer.
The tampering and avoidance of the safety devices can cause risks (even fatal) for the operators.



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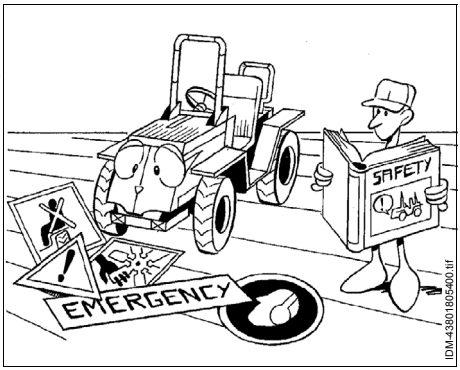
– Caution is always necessary. Safety is also in the hands of the operators working the machine throughout its life span.
It is always too late to remember that which should have been done when it has already occurred.

– Carefully read the "User instructions" in this manual and those directly applied on the machine.
It is important to read the "User instructions" to minimise risks and avoid dangerous accidents.
The driver must ensure having understood the "User instructions" before interacting with the machine.



– Carefully read the SAFETY WARNINGS in the "User instructions" and those directly applied on the machine.

– Ensure the information signals are legible and respect the reported indications.
The information signals can be of different shapes and colours, to signal dangers, obligations, prohibitions and indications.

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SAFETY WARNINGS FOR THE EMPLOYER

– Entrust driving of the machine ONLY to competent and experienced operators in using farming machines or similar sectors.

– Foresee a training plan for operators that may not have the necessary competences for using the machine.

– Inform the operators on the reasonably predictable INCORRECT USES and on the RESIDUAL RISKS.

– The operator must be able to read and understand the user manual and recognise the safety signals.

– The operator must prove to have the adequate competences and be in adequate conditions to safely carry out the activities.

– The employer should document the training attended by the operators, so that it can be produced in the event of a dispute.

– To avoid inadequate safety conditions DO NOT entrust unsuitable operators with driving the machine.

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The safety warnings indicate some principles that staff (driver and operator) must respect during machine handling and transporting.

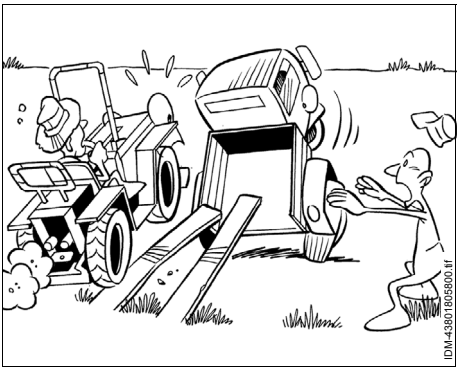
– The machine can be transported directly with the driver in the driver's seat, or with the machine loaded onto a transport mean.

– Carry out load, unload and transfer following the information reported directly on the machine and in the "User instructions".

– Staff in charge of loading and unloading onto a transport mean to transfer the machine, must be competent and skilful and work cautiously.

– ONLY use suitable ramps or other systems able to ensure safe conditions during loading and unloading from the mean of transport.

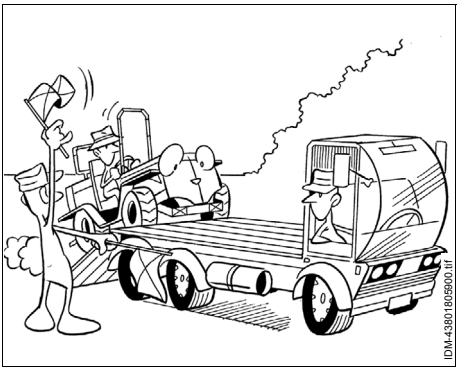
– ONLY use relevant bar (correctly hooked to the hitching points of the machine) when the towed machine must be loaded/unloaded.



– An assistant may be used (situated at a safe distance) to signal the manoeuvres during loading and unloading of the machine onto the transport mean.

– ALWAYS deactivate the PTO of the machine before loading it onto the transport mean.

– Disconnect the interchangeable equipment from the machine in the event of health risks during loading and unloading onto the transport mean.



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– Ensure the machine and its components are safely anchored to the transport mean.

– Verify and arrange the opportune signals, if the shape of the machine exceeds the admitted clearance for road circulation.

– Perform transport using suitable means and of adequate capacity.

– On reception, check the integrity of the machine and components. In the event of damage or lack of parts, contact the manufacturer or local authorised dealer to agree on the procedure to be followed.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT lift the machine using lifting devices with hook (crane) or forks (lifting truck).

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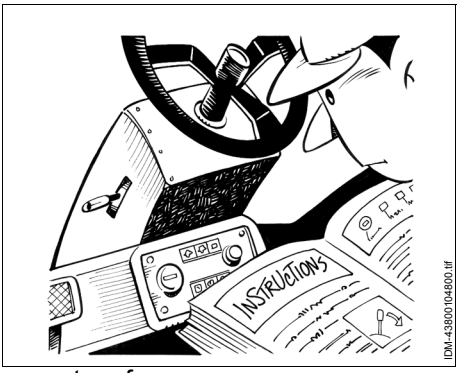
SAFETY WARNINGS FOR THE DRIVER

The safety warnings emphasise the attention and behaviour the driver of the machine must have, to be able to safely interact.
Accidents (often serious) involving the use of farming implements and machines depend on many factors.
One factor that may affect safety is often the environmental condition when working, where it is not always possible to foresee all risks.
Other factors that may determine risks during man-machine interaction, are the poor attention, the behaviours and incompetence of the operators.



– ONLY use the machine after having read the manual, having identified the control functions and having simulated some manoeuvres, particularly start and stop.
– Drive the machine ONLY if experienced in using farming machines or similar sectors.
– The machine must ONLY be used by persons having the requirements requested by the legislations in force in the country of use.
– Learn the functions of all controls to correctly and naturally manoeuvre the machine.
– Drive the machine carefully and responsibly, and try to perceive potential risks that may exist.
  The machine must ONLY be driven in suitable psycho-physical conditions and having suitable skills to perform the activities requested.
– Pay attention when driving and avoid being destructed (use of communication devices, drinking and eating etc.).
– ONLY use the machine for the uses and with methods intended by the manufacturer.
– The driver's seat must ONLY be occupied by the driver.
– ONLY wear conform clothing and shoes, to be able to correctly activate the controls and not become entangled in moving parts.

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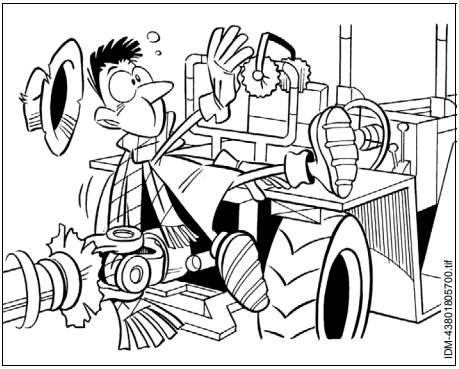
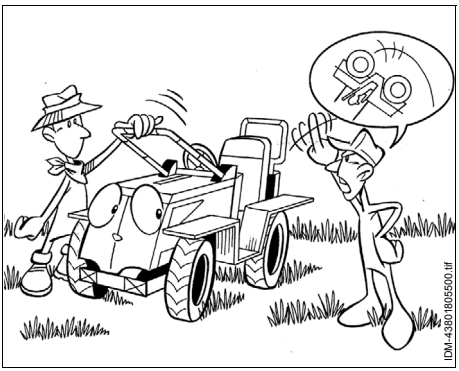
– Use the IPD indicated in the "User instructions" and those envisioned by the laws in force at work.
– Always keep the first-aid kit at hand in the driver's seat (which is not an obstruction) and keep it filled.



Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– Do NOT "recklessly" drive the machine.
– DO NOT use the machine under the influence of substances or medicines altering reflexes during driving.
– DO NOT use the machine if you do not know the function of the controls and how to perform manoeuvres naturally, correctly and without risks.
– DO NOT tamper with, exclude, eliminate or by-pass the safety devices installed on the machine.
– NEVER let inadequately trained, documented and authorised operators use the machine.
– NEVER let operators unable to read and understand the "User instructions" and recognise the safety signals use the machine.



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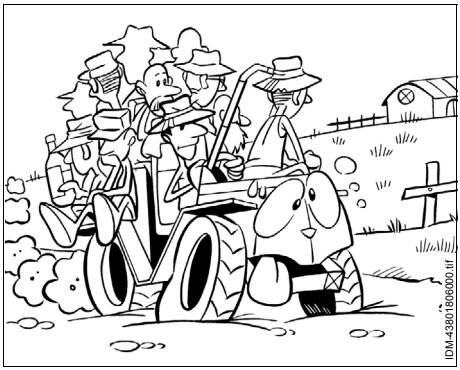
– DO NOT carry out different activities (e.g. answer communication devices) that may destruct the attention when using and driving the machine.

– DO NOT transport persons, domestic animals or any object in the driver's seat, in other parts of the machine or on the hitched tools.

– DO NOT wear clothing that may become entangled in moving parts or accidentally activate the controls.

– DO NOT use unsuitable shoes (bare feet, slippers, etc.) that may obstruct or prevent correctly activating the controls.



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SAFETY WARNING REGARDING CIRCULATION ON ROADS

The safety warnings indicate some principles that the driver must, as well as respect the highway code, comply with to prevent accidents during circulation.

– ONLY circulate on public roads with the machine configured as envisaged upon approval.

– Before taking the machine on the road for whatever purpose, activate all the required safety devices, and those designed to ensure proper braking and road-holding. Secure any parts that could cause sudden shifting movements.

The machine equipped with oscillating tow bar is not approved for travelling on public roads

– Before circulating on public roads, check the effectiveness of the signal and lighting devices of the machine, the pressure and wear of tyres.

– Adjust the drive during road circulation (town or out of town roads) to the traffic and routes conditions.

– Moderate speed during road circulation with hitched tools (carried or towed). Consider that hitched tools modify the distribution of weights, alters stability and reduces braking efficiency.

– ONLY drive the machine on public roads with the driver's seat in the normal position and not in reverse position.

– ONLY use the accelerator with pedal control (with hand lever in "minimum" position) when circulating on public roads.

– Transport on public roads ONLY with the lifting device locked in high position.

– Disconnect the front-wheel drive during road circulation to avoid unnecessary wear of tyres and improve manoeuvring the machine.

– In the downhill routes, with hitched interchangeable tools, one recommends to engage the front wheel drive to achieve a greater braking action.

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Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT use the machine equipped with tyres blast with liquids during road circulation.

– DO NOT use the machine with the driver's seat turned in reverse position during road circulation.

– DO NOT use the machine configured differently from that envisioned upon approval during road circulation.

– DO NOT travel on public roads with towed equipment if the machine is equipped with oscillating tow bar, since it is not approved for that.

– DO NOT use the accelerator lever control during road circulation.

SAFETY WARNINGS BEFORE USE

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– For operator safety, ALWAYS evaluate the dangers associated with use, to establish whether the machine is adequately equipped.

– The dangers to be considered are risk of overturning, the falling of objects and/or materials from a height, the risk of inhaling spray plant protection products, etc.

– Clean the machine to better identify the defectiveness and any breaks.

– For correct operation, visually check the machine is in good state, without fluid leaking and without loose components.

– ONLY use the machine if the scheduled maintenance interventions have been regularly carried out.

– Check the general conditions of the tyres (intact chassis, without damages, etc.) and that the track is not excessively worn.

– Check that the silencer is in efficient conditions for the good operation of the engine and to limit acoustic pollution.

– Always keep the ascent platforms and control pedals clean and free from mud and/or debris.

– Check that the driver's seat is clear from objects so as not to obstruct the activating of the controls.

– Check the position of the seat, of the wheel and the rearview mirrors to assure correct ergonomics and visibility from the driver's seat.

– Orientate the driver's seat (normal or turned into the reverse position) depending on the travel direction necessary for the activity to be carried out.

– Turn the driver's seat ONLY with machine not steered and stopped in safe conditions.

– After having turned the driver's seat, always check that the control devices function correctly.

– Check that all guards, protection and safety devices installed (sensors, safety arch, safety belts, etc.) are integral and efficient.

– Refill fuel in an open and aired space, with engine at ambient temperature and machine stopped in safe conditions.

– Fill the machine without completely filling the tank in order to avoid fuel leaking (it expands if temperature rises).

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Fuel leaks or spillage on hot surfaces and on electrical components can cause fires.

– ALWAYS make sure that the safety arch is blocked correctly in the lifted position and fasten safety belts, to reduce risks in case of overturning.

– It is possible to lower the safety arch ONLY to temporarily move the machine in areas without RISK of overturning and for short distances.
When the safety arch is lowered, the driver MUST NOT fasten the safety belts and, as he is not protected in case of overturning, must cautiously manoeuvre the machine.

– Keep cab windows clean (inside and outside) to assure maximum visibility. If fogged, activate the relative controls.

– The cab IS NOT CERTIFIED as FOPS and OPS safety device against the risk of falling and/or side penetration of material.

– The machine equipped with pressurised cab and active charcoal filters allows hitching tools to spray plant protection products with lower risk of inhaling.
ALWAYS wear the IPD to spray plant protection products to minimise the risk of inhaling, even if the cab is pressurised and with active charcoal filters.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT use the machine if the scheduled maintenance interval has expired.

– DO NOT use the machine if the tyres are not in good condition or have technical and dimensional features different to those envisioned by the manufacturer.

– DO NOT use the machine with ballasts installed and tools disconnected, to avoid risk of instability.

– DO NOT use the machine with safety arch lifted, without having fastened the safety belts.

– Unless absolutely necessary and temporarily, DO NOT use the machine with the safety arch lowered.

– DO NOT fasten the safety belts if it is necessary to temporarily, and for short distances, move the machine with the safety arch lowered.

– DO NOT spray plant protection products without wearing the IPD, even if the cab is pressurised and with active charcoal filters.

– DO NOT use the machine (even with cab) with risk of material falling from a height, as IT IS NOT CERTIFIED as FOPS safety device.

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– DO NOT use the machine (even with cab) with risk of side penetration of material, as IT IS NOT CERTIFIED as OPS safety device.

– DO NOT smoke while filling up with fuel and DO NOT fill the machine in potentially dangerous environments (risk of fire and/or explosion).

– DO NOT hitch towed tools unless compatible with the machine (power, effort at the towing hook, number of PTO revs, braking system, etc.).

– DO NOT use the machine with the safety devices not perfectly installed and effective.

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SAFETY WARNINGS FOR CONNECTION AND DISCONNECTION OF IMPLEMENTS (CARRIED OR TOWED)

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– Do not allow persons not involved in the hitching and disconnection of the interchangeable tools to approach the operational area.

– Based on the work to be carried out, evaluate the most suitable tools to be hitched (carried or towed), to prevent dangers and minimise the risks.

– Refer to the "User instructions" of the tools to be hitched to understand the operating methods and risks associated with its use.

– Apply the specific formula (indicated by the machine manufacturer) to calculate the compatibility of the carried tool to be hitched.

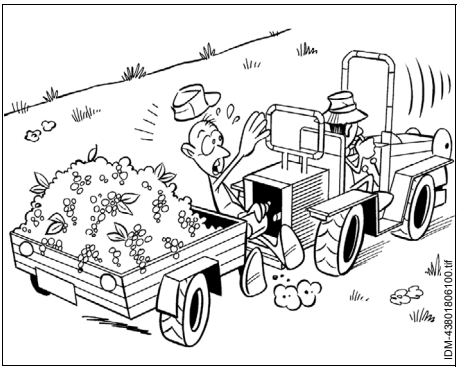
– ONLY hitch carried tools conform with the values obtained with specific formula to maintain the machine stable.

– Correctly install the necessary ballasts (calculated with specific formula), in a way to assure stability and correct adherence of the machine.

– Carry out all hitching and removal operations of the tools (carried or towed) ALWAYS with machine stopped in safe conditions.

– Correctly hitch the carried tools to the power lift unit to avoid accidental disconnection.

– Control that the carried tools are correctly fastened and that the power lift unit does not oscillate to avoid accidental disconnection.



– ONLY hitch the towed tools to the towing hook and NOT to the machine's trailer hook.
The towed tools must be compatible with the machine features (power, effort at the towing hook, admitted towable weight, number of PTO revs, braking system, etc.).

– Verify that the number of PTO revolutions of the tools is compatible with that of the machine.

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– ALWAYS select, using relative machine control, the requested number of revolutions for the correct operation of the tools.

– Check that all safety protections of the Cardan shaft are integral and efficient and respect the relative "User instructions".
  The incorrect installation of the cardan shaft and inefficiency of the safety protections can the cause accidents (even fatal).

– Connect the Cardan shaft first to the tool PTO (carried or towed) and then to that of the machine.
  Respect the connection sequence of the cardan shaft, to avoid fatal whiplash if the machine's PTO accidentally starts.

– ALWAYS correctly connect the safety chains to prevent the rotation of the Cardan shaft protections.

– Verify that the Cardan shaft (in particular upon first machine-tool coupling) has a suitable length so as not to "stop dead" during use.

– Clean and check integrity of the quick couplings and the couplings, before hydraulically connecting the tool to the machine.
  In the tool disconnection phase, insert the relative plugs to protect the hydraulic couplings and correctly put back the pipes to avoid damaging them.

– The machine can tow equipment without brakes (trailers, tankers, etc.) or with an inertia braking system or an independent mechanical system.
  The braking command with independent mechanical system is activated by the lever to be positioned in the appropriate support on the tractor (See "Description of the main parts").

– The towed equipment that can be attached to the machine must have a maximum weight that falls within the limits indicated by the manufacturer (See "Technical data tables").

– Adjust the towing hook so that the drawbar of the towed tools is correctly positioned to avoid altering the vertical and drive effort.

– Insert the retainer devices (plugs, cotter pins, etc) to avoid accidental disconnections and make correct electric and hydraulic tools connections.

– Use different coloured quick couplings to connect the hydraulic system of tools hitched to the machine, in front and behind the machine (carried or towed).

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Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT use the front towing hook to tow interchangeable tools or to perform other non-pertinent activities.

– DO NOT hitch tools (carried or towed) if not compatible with the technical features of the machine.

– DO NOT hitch the front loader to the machine, if not equipped by the manufacturer with hitching points for these tools.

– DO NOT hitch tools (carried or towed) if not equipped with all safety devices correctly installed and efficient.

– DO NOT hitch the tools to the machine if the information in the relative manuals are not thorough to avoid unforeseen residual risks.

– DO NOT use the tools (carried or towed) if the Cardan shaft is not correctly connected and the safety protections are not intact.

– DO NOT connect and disconnect the tools and connect the power supply, if the machine is not stopped in safe conditions.

– DO NOT use same coloured quick couplings to connect the hydraulic system of tools hitched to the machine, in front and behind the machine (carried or towed).

– NEVER use the emergency hook (front) to tow any interchangeable tool.

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– ONLY use the machine in compliance with the laws disciplining the work and, in case of circulation on public roads, those requested by the highway code.

– Climb into and out of the driver's seat ONLY using the foreseen points and the appropriate platforms and handrail to avoid risk of falling.

– Before starting the engine, check that all controls are in neutral to prevent uncontrolled and dangerous start-ups.

– ONLY start the engine when sitting in the driver's seat and safety belts fastened during the working activity.

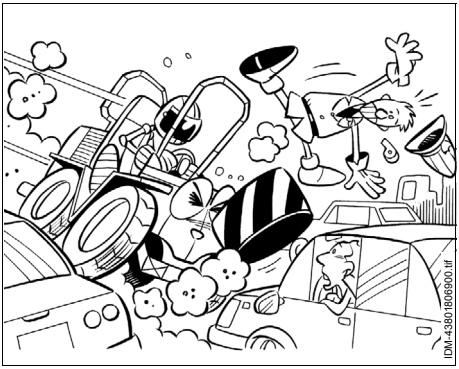
– Pre-heat the engine suitably (when ticking over) using the accelerator level control, before starting work activities.
It is recommended to pre-heat the engine, in particular during running in and in the event of low temperatures.

– Use the accelerator control lever ONLY when starting up and/or when running the engine at a constant speed during the work phases.

– Immediately stop the machine and switch the engine off if during use anomalies, noises and/or suspect vibrations are detected.
Re-start the machine ONLY after having restored the normal use conditions.

– Moderate engine rpm to avoid disturbing when using the machine in built-up areas.

– Verify that, with the machine equipped with tools, the view from the driver's seat is sufficient to note the presence of persons or other dangers.



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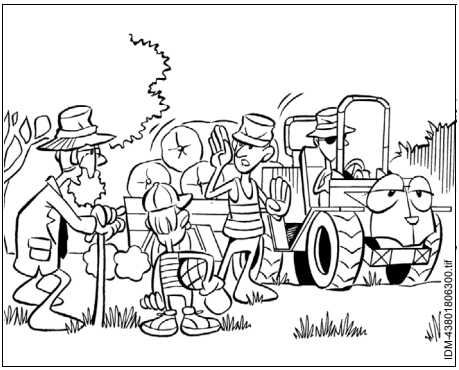
– Check that the work area has suitable manoeuvring space and ideal environmental conditions.

– ONLY use the machine at night with lighting devices perfectly intact and efficient.

– Immediately stop the machine if there are unauthorised persons (children, elderly, animals, etc.) within the action range.

– ONLY climb on, descend and/or abandon the driver's seat with the machine stopped in safe conditions.

– Activate the lighting devices when in poor visibility conditions and adjust driving to the environmental conditions.



Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT access the driver's seat from points different to those envisioned and indicated by the manufacturer in the "User instructions".

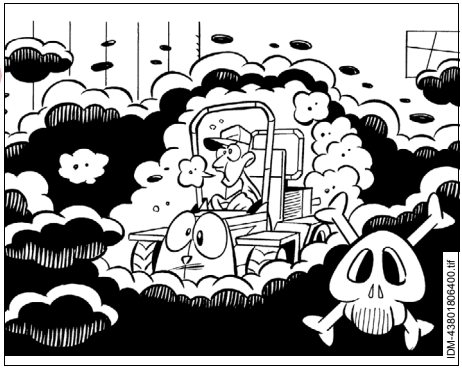
– DO NOT use the machine without having pre-heated the engine at adequate rev, in particular during running in or in the event of low temperatures.

– DO NOT continue using the machine if anomalies, noise or suspect vibrations are encountered.

– DO NOT continue using the machine if, from the driver's seat, the action range is not clearly visible and if there are persons and/or animals present.

– DO NOT climb on or off the machine if not stopped in safe conditions.

– Never leave the engine running in closed or inadequately ventilated environments. Exhaust fumes are potentially dangerous to health.
– DO NOT work at night unless all lighting devices on the machine and on the tools are not perfectly intact and efficient.
– DO NOT work with risk of dangerous substances being emitted without wearing the IPD, even if cab is pressurised and with active charcoal filters.



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SAFETY WARNINGS DURING USE ON SLOPING OR UNEVEN TERRAINS

The driver must drive the machine appropriately and ALWAYS proceed with caution, especially in conditions entailing the risk of overturning.
It is difficult to formulate a complete list of all the conditions linked to behavioural and environmental factors which can cause the risk of overturning.
Compliance with the listed warnings can decrease but NOT completely eliminate the risk of overturning.

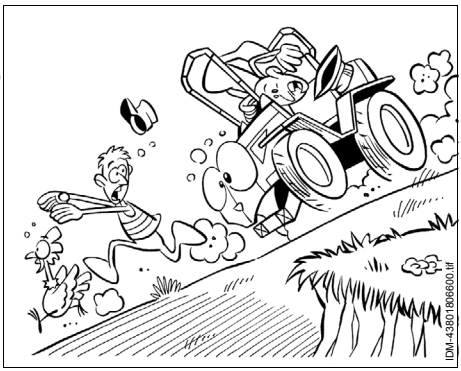
– ALWAYS adapt the advancement speed of the machine to the conditions of the ground and always proceed with great care.

– Pay attention to risk of overturning when working on sloping terrains, in particular with machine equipped with tools and ballasts.

– Avoid any type of obstacle which can endanger stability with the risk of the machine overturning, especially on steep terrains (ditches, holes, soft ground, etc.).

– Activate the integral traction to improve holding on the ground in critical conditions (uneven, soft, with excessive gradient, etc.).
Drive safely, with four-wheel-drive engaged, to reduce the risk of the machine overturning.

– Insert a low transmission ratio before facing steep descents (to make use of the engine brake) and steep ascents (to have good traction).



– Be careful when the machine is in conditions in which it can easily tip up (such as coming out of the ditch) to avoid the risk of tipping over backwards.
The risk of overturning increases suddenly and uncontrollably when driving too fast or if the machine is configured with "narrow track".

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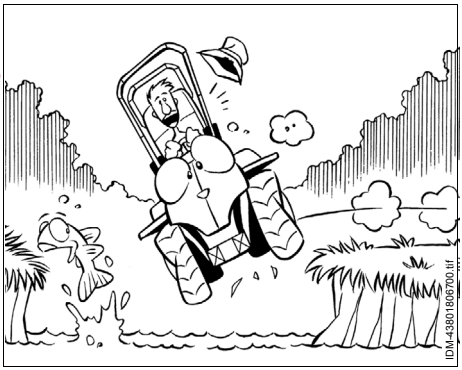
– Be careful when working on soft ground (even flat) due to adverse weather conditions (heavy rains, flooded fields, etc.)

– Pay maximum attention when operating near to ditches, slopes, channels etc. as the ground is less compact and could slide.



– Maintain control of the machine, stay in the driver's seat and avoid instinctive and unreasonable gestures in case of risk of overturning.
In case of overturning, hold tightly onto the steering wheel and at the same time, lean towards the opposite side, pressing feet onto footboard and back into the seat.

– Identify the escape ways (indicated in the manual) to react in case of overturning with machine equipped with cab.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT perform sudden steering actions at high speed, in order to prevent the loss of stability of the machine and the risk of overturning.

– NEVER change gear during descent on steep ground, in order to prevent the gear not being inserted correctly (gear in neutral).

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SAFETY WARNINGS REGARDING USE WITH TOOLS (CARRIED OR TOWED)

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

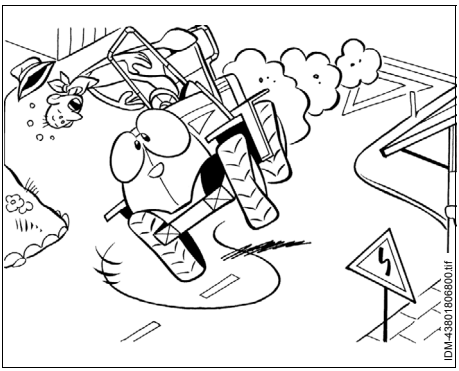
– ONLY activate PTO with tools (carried or towed) in work position.

– Lift the carried tool and block it suitably during circulation on roads, so as to prevent uncontrolled and unexpected movements.

Transport on public roads ONLY with the lifting device locked in high position.

– ONLY transfer the machine with carried tools in lifted position and activate the safety devices to hold the position.

– Moderate speed during road circulation with hitched tools (carried or towed).
Cautiously drive to limit risk of instability if tools (carried or towed) are hitched to the machine.
Consider that hitched tools modify the distribution of weights, alters stability and reduces braking efficiency.



– Cautiously drive during use of hitched tools (carried or towed) envisioning the presence of other operators, to protect their safety.

– Inform on the behaviours and methods to be respected for safety purposes, when the use of tools (hitched to machine) envisions the presence of operators.

– Adopt suitable measures to prevent dangerous movements, if the machine is equipped with tools that work in static mode (saw, woodcutter, etc.).

– Take appropriate measures in the event of fall and/or lateral penetration of material during operation.

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The driver protection structure is NOT CERTIFIED as a FOPS and OPS safety device.
The machine does not have points to apply FOPS and OPS protection devices or front loaders.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT perform brakes or sudden manoeuvres but adjust speed if the machine is equipped with tools (carried or dragged).

– DO NOT activate the PTO of tools (carried or towed) hitched to the machine when they are not in work position or during road circulation.

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WARNINGS FOR USE WITH SPRAYING TOOLS

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– Refer to the "User instructions" of the spraying tools to understand the operating methods and risks associated with its use.

– The driver's seat, even if equipped with CATEGORY 1 cab, does not protect the driver against dangerous substances.

– Refer to the instructions on the plant protection products to be used, to evaluate the type of IPD to wear as protection against inhalation and contact.

– Respect the information on the plant protection products (in particular those relating to safety), and arrange adequate preventive measures.

– Interrupt spraying if there are persons within the action range, exposed to risk of inhaling the plant protection products.

– Always keep the doors and windows closed during spraying to avoid inhaling plant protection products.

– After spraying wash the tools and the machine also (if necessary) to eliminate plant protection product residues deposited on the surfaces.

– Carry out washing in a suitable place to avoid dispersing the washing residue in the environment.

– Park the machine with spraying tools in a non-accessible place, to avoid unauthorised persons coming into contact with the plant protection products.

– Accurately clean the IPD used during spraying and deposit them in a suitable place to maintain them efficient and functioning.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT spray plant protection products without wearing the IPD, even if the cab is pressurised and with active charcoal filters.

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SAFETY WARNINGS REGARDING USE IN FORESTRY

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

The list shows the most common risks during use of machine in forestry.

- Risk of trees, logs or other material falling from a height in the area reserved to the driver.
- Risk of side penetration of trees, logs or other material in the area reserved to the driver.

– Carry out forestry work ONLY with machine stopped, tools hitched and activated by PTO.

– Take appropriate measures in the event of fall and/or lateral penetration of material during operation.

The driver protection structure is NOT CERTIFIED as a FOPS and OPS safety device.

The machine does not have points to apply FOPS and OPS protection devices or front loaders.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT use the machine in forestry even, if equipped with cab, if there is the risk of falling and/or side penetration of material.

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SAFETY WARNINGS REGARDING USE WITH BALLASTS INSTALLED

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– To correctly balance the machine ONLY proportionally install the necessary amounts of ballasts.

– To keep the machine balanced, install the same amount of ballasts on both sides.

– Have the machine ballasting carried out with the insertion of liquids in the tyres, ONLY by expert staff.
During cold periods, to prevent the liquid inserted in the tyres freezing, insert specific antifreeze liquid.

– Apply the ballasts in the front part in order to maintain stability, when the heavy and long interchangeable tools are hitched to the vehicle.

– ALWAYS remove the ballasts when disconnecting the carried tools in order to maintain machine stability unaltered.
The machine with ballasts installed, but without carried tools disconnected, becomes unstable, premature wear of the tyres and consumption of more fuel.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT use the machine with ballasts installed and tools disconnected, to avoid risk of instability.

– DO NOT use the machine with the ballasts not suitably distributed depending on the type of interchangeable tool hitched and the conditions of the ground where the operations must be performed.

– DO NOT use the machine equipped with the ballasts, if they are not necessary, so as not to jeopardise its performance and functionality.

– DO NOT overload the machine with ballasts over the maximum weight allowed.

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SAFETY WARNINGS AT END OF USE

The safety warnings indicate some principles that staff (driver and operator) must respect during man-machine interaction.

– Safely park and stop the machine in an adequate place, so that it is not an obstruction and danger.

– Set-up suitable conditions and lock the doors (machine equipped with cab) to prevent access to unauthorised persons.

– If parking the machine in a closed place, check the environment is sufficiently aired.

– To avoid any risk of fire, allow the engine to cool down properly.

– In cold periods, remove the battery to prevent the electrolyte from freezing.

– Disconnect the battery cable (negative pole) and cover the two battery poles with Vaseline.

– In case of prolonged machine inactivity, adopt adequate procedures to preserve functioning and prevent deteriorations.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

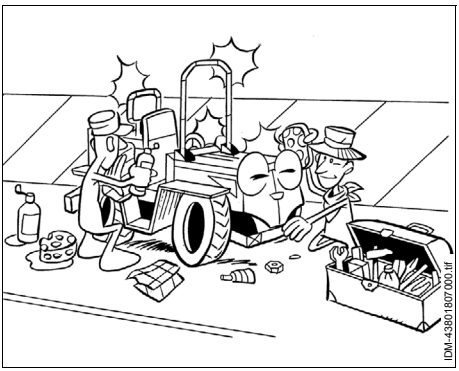
– Do not park the machine in enclosed or unventilated spaces with the engine still warm.

– DO NOT abandon the driver's seat without having stopped the machine in safe conditions.

The safety warnings indicate some principles that staff (driver and operator) must respect during machine adjustment and maintenance.

– The warranty expires if the periodical service and the inspection and maintenance intervals indicated in the user manual are not respected.
Services must be carried out at enabled and authorised workshops according to the manufacturer procedures.

– Keep the machine in perfect running conditions and carry out scheduled maintenance according to the frequency and methods provided by the manufacturer.



– Refer to the maintenance table to avoid using the machine if the scheduled interval has expired.
Good maintenance will maintain the best performance, a longer working duration and a constant preservation of the safety requirements through time.

– Keep al main parts constantly clean (engine, battery, fuel tank etc.) to prevent the risk of fire owing to the accumulation of dust and residues.

– Keep that the silencer in efficient conditions for the good operation of the engine and to limit acoustic pollution.

– The normal adjustments and routine maintenance must be performed by operators having competence and experience acquired and recognised in the sector of intervention.

– Carry out the interventions following indications in the user manual, ONLY using suitable tools, not worn and with adequate tools and/or devices.

– Before carrying out adjustment and maintenance interventions in dangerous areas, set-up adequate safety conditions complying with the laws in the work place.

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– Safely block the machine elements that must be lifted during adjustment and maintenance, to avoid the risk of suddenly lowering.
– Wear the IPD indicated in the "User instructions" and/or on the machine and those envisioned by the laws in force at work.
– In searching for pressurised oil leaks, use suitable individual protection devices to avoid perforations of body parts.
– Before carrying out maintenance and adjustment interventions, activate all machine safety devices.
– Carry out adjustment and maintenance operations with machine stopped in safe conditions.
– Before carrying out adjustment and maintenance interventions on the engine or near-by areas, ensure the temperature of the components does not entail risk of burns.
– The operators authorised to carry out any intervention on the machine, must have experience acquired and recognised in the specific sector.
– Have the extraordinary maintenance interventions carried out ONLY by experts, able to work in compliance with the laws at work.

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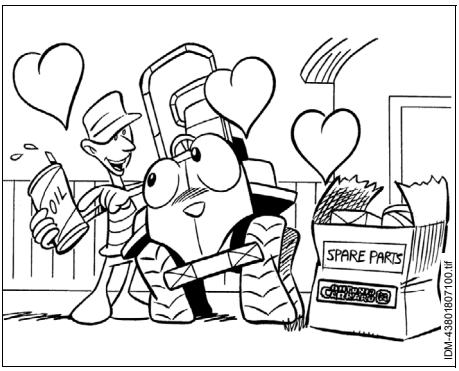
– Replace parts that are too worn, especially those relative to safety, ONLY using original spare parts or parts that have the exact same features.
The use of the machine equipped with non-original components or those with different features (in particular the components relative to safety) exonerates the manufacturer from any liability and makes the warranty rights in force become null and void.



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– ONLY use lubricants (oils and greases), refrigerant gas and cooling liquids recommended by the manufacturer. All this assures machine functioning and provided safety level.

Incorrect uses

The listed prohibitions represent the most common incorrect uses. The non compliance can entail risks for the personal health and safety.

– DO NOT perform interventions different to those indicated in the user manual without the manufacturer's express authorisation

– DO NOT perform any intervention on the machine or interchangeable tools if the machine has not been stopped in the safe conditions indicated.

– DO NOT carry out any interventions on the electric plant or welding operations on the machine without first disconnecting the battery and any circuit board connectors, thus preventing irreversible damage to the components.

– DO NOT clean the machine using pressurised jets of water aimed directly onto the electric components and do not use inflammable and/or corrosive products so as not to damage the components.

– DO NOT perform any intervention on the components of any pressurised circuit (hydraulic plant, air conditioning, etc.), without first having eliminated the pressure and having controlled that there is not residual energy present.

– Do not dispose of pollutant materials in the environment. Dispose of all such materials in compliance with applicable legislation.

SAFETY WARNINGS REGARDING ENVIRONMENTAL IMPACT

Every organisation has the task of applying procedures in order to identify, evaluate and control the effect that its activities (products, services, etc.) have on the environment.
The procedures to follow in order to identify significant impact on the environment must consider the following factors:

– Emissions into the atmosphere

– Discharging liquids

– Management of waste

– Contamination of the ground

– Use of raw materials and natural resources

– Local problems relative to environmental impact

With the purpose of minimising environmental impact, the manufacturer below supplies some indications that must be taken into consideration by anyone which, for any reason, interacts with the machine during its envisioned life span.

– All packaging components must be disposed of with respect to the laws in force on this subject.

– With the machine engine running in closed environments, make sure that there is suitable fresh air in order to prevent the concentration of unhealthy air for persons.

– During use and maintenance, do not disperse pollutant substances into the environment (oils, greases, etc.) and dispose of them separately depending on the composition of the different products and with respect for the laws in force regarding this subject.

– Keep noise levels to a minimum to reduce acoustic pollution.

– Do not dispose of pollutant materials in the environment. Dispose of all such materials in compliance with applicable legislation.

– The WEEE can contain dangerous substances with potentially noxious effects on the environment and the health of persons. Disposal must be performed correctly.

– In the disposal phase, select all components depending on their chemical features and dispose of them separately with respect to the laws in force regarding this subject.

– With reference to the WEEE Directive (Waste Electric and Electronic Elements),

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in the disposal phase the user must separate the electric and electronic components and dispose of them in relative authorised centres or return them still installed to the dealer on making a new purchase.

– All components, which must be separated and disposed of in a specific manner, are marked by the relevant sign.

– The abusive disposal of Waste Electric and Electronic Elements (WEEE) is punished with legal sanctions regulated by the laws in force in the territory where the infraction is committed.

WARNINGS ON RESIDUAL RISKS

Residue risk

The definition indicates "all residue risks despite all safety solutions have been used and integrated during designing".

The list shows the residual risks typical of this type of machine.

– **Risk of loosing stability:** the operator must drive safely and responsibly to avoid the risk of tilting and/or overturning the machine.
The risk of instability could increase if work tools are hitched to the machine, if ballasts are installed, if it operated in proximity of ditches and precipices, on soft ground, on unlevelled ground and in unfavourable environmental conditions.

– **Risk of tripping:** the operator, when climbing on and descending from the driver's seat, must be careful not to trip on any control devices.

– **Risk of blows or projection:** in the installation phase of the mechanical transmission Cardan shaft, the driver MUST FIRST CONNECT IT TO the interchangeable tool and then the machine.
In the shaft disconnection phase, the driver MUST ALWAYS DISCONNECT IT FIRST from the machine transmission.
To prevent the very dangerous "WHIPLASH", the hitching and disconnection phases of the Cardan shaft of the machine MUST be carried out correctly and in the sequence envisioned.

– **Risk of crushing:** the operator must connect and disconnect the equipment ONLY from the driver's seat and MUST NOT allow anyone to stand in the connecting area.

– **Risk of shearing:** DO NOT approach the cooling fan or moving parts without guards, with the upper limbs.

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– **Risk of inhaling dangerous substances:** the operator MUST NOT use the machine in closed or insufficiently aired ambients.
ALWAYS wear IPD to carry out work with risk of dangerous substances being emitted, even if cab is pressurised and with active charcoal filters.

– **Risk of dragging and entanglement:** DO NOT go near the rear and front mechanical transmission shaft in motion in order to avoid the danger of becoming entangled and being dragged.

– **Risk of friction or abrasion:** the driver MUST NEVER touch the tyres when the machine is in movement.

DESCRIPTION OF SAFETY SIGNS

The illustrations represent the safety signs and information applied to the machine. The meaning is given at the side of every sign.

A - Generic risk: switch off the engine and remove the ignition key before doing any type of work on the machine.

B - Risk of cutting or amputation: keep your hands well clear of moving parts.

C - Risk of burns: take care! Hot surfaces.

D - Fall and crash danger: in order to guarantee safety, do not carry passengers in absence of appropriate seats other than the driver's.

E - Risk of crushing: do not stand within the machine's operating area.

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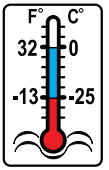
F - **Risk of overturning:** do not use the machine without making certain the roll bar (Roll Over Protective Structure) is correctly positioned.

G - **Risk of crushing body parts:** keep clear of the area when moving parts are in operation.

H - **Risk of entanglement:** do not approach mechanical parts when in motion

L - **Generic danger:** the power take-off must be engaged only in order to operate an implement mounted to the tractor.

M - **Warning sign:** indicates the temperature at which the cooling liquid starts to freeze.



Important

With temperatures near to those indicated in the sign, it is necessary to replace the cooling liquid with an effective mixture also at lower temperatures.

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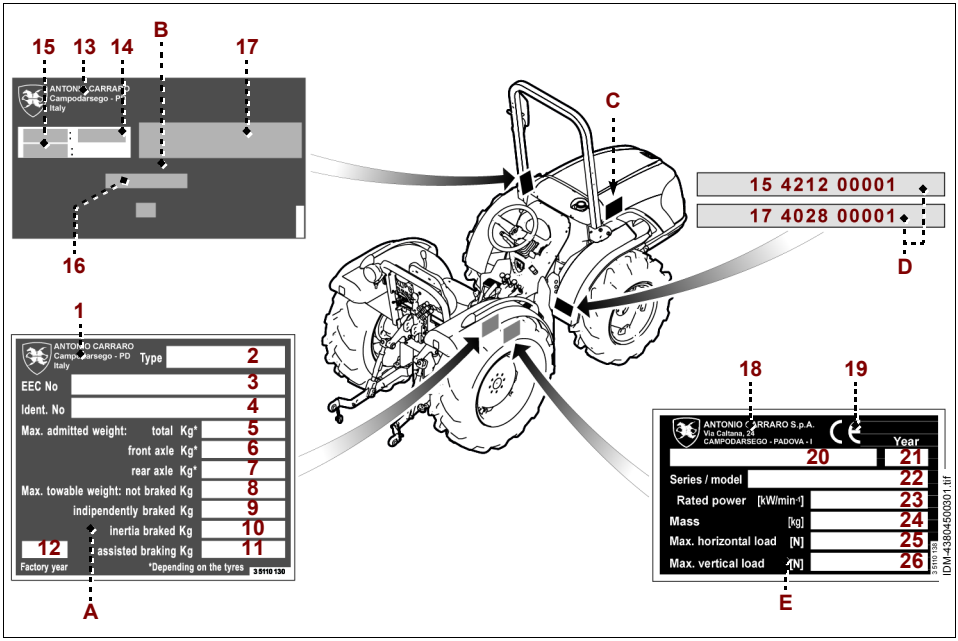
IDENTIFICATION OF THE MACHINE AND ITS MANUFACTURER

The illustration represents the identification plates and their position.



The list indicates the descriptions given in each individual plate.

A - Manufacturer and machine identification data plate

1) Name of manufacturer
2) Model of machine
3) CEE type approval number
4) Serial number
5) Permissible weight: total
6) Permissible weight: front axle
7) Permissible weight: rear axle
8) Permissible trailer weight: no brakes
9) Permissible trailer weight: independent braking
10) Permissible trailer weight: inertia braking
11) Permissible trailer weight: power assisted braking
12) Year of manufacture

B - Roll bar approval data plate (ROPS)

13) Name of manufacturer

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14)type of structure
15) Serial number
16) Model of machine
17)CE type-approval number

C - Engine identification data plate

Important

See the electric motor's own instruction manual for motor identification data.

D - Machine serial number

E - CE conformity marking plate

18) Name of manufacturer
19)CE conformity marking
20) Model of machine
21) Year of manufacture
22) Range and model
23) Nominal power
24) Weight of the machine
25) Maximum horizontal load on rear hook
26) Maximum vertical load on rear hook

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GENERAL DESCRIPTION OF THE MACHINE

– The "15 TIGRE 4000" - "17 TIGRE 4400 F" range machine was designed and manufactured to satisfy the different needs of the agricultural and gardening market.

– The machine is suitable for pushing, pulling and driving carried, semi-carried and towed interchangeable tools.

Important

The machine does not have points to apply FOPS and OPS protection devices or front loaders.

– The machine is characterised by an integral oscillating "steering wheel" type frame ACTIO, to allow rapid manoeuvres even in narrow spaces.

– The four-wheel drive system ensures a good hold even on difficult ground.

– The width and small dimensions, the low barycentre and the minimum steering radius, make the machine particularly indicated for specialised crop jobs, gardening for public bodies, etc.
All functional and dimensional features (power, dimensions, weights, etc.) are found in the technical data tables.

– The machine is available as per standard with three-point hydraulic power lift, towing hook, PTO and rear hydraulic hitches to control and drive the different interchangeable tools, installed to satisfy all operational requirements.

– From the driver's seat the driver has direct and indirect visibility (rearview mirrors) for activation of the machine in declared uses and in safe conditions.

– The machine has been subjected to various lab trials to test its performances, in particular to identify the maximum admitted slopes and the overturning limits.

Important

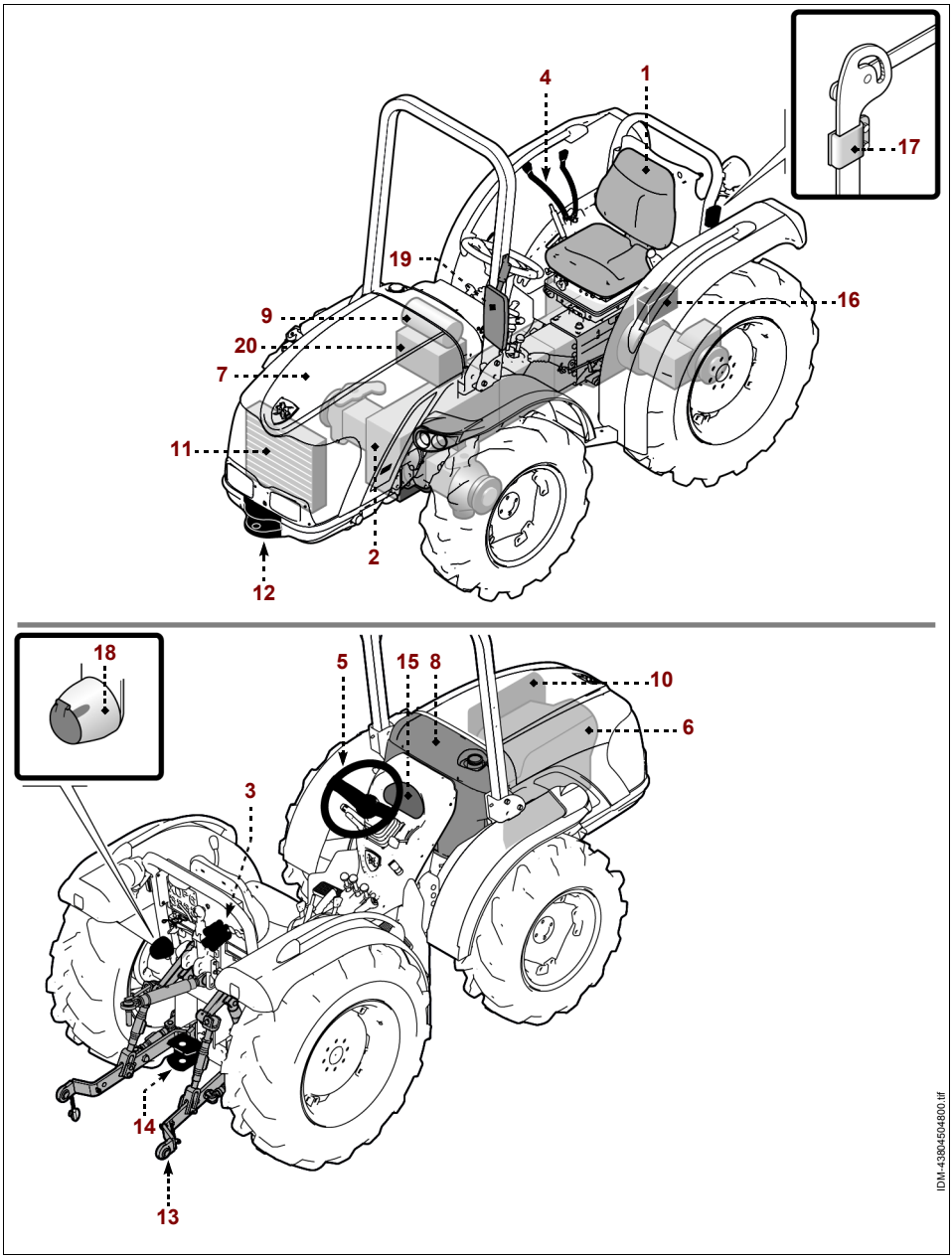
Respect of maximum admitted slopes does not exclude the risk of overturning, as it is difficult to foresee and reproduce the possible environmental conditions in the lab.

C34380450 2.fm

– The machine is type-approved for road use.
  JUST ONE OPERATOR (driver) is requested for use of the machine, sitting at the driver's seat, with the safety arch blocked in the lifted position, the safety belts fastened correctly and all safety devices integral and efficient.
– The driver, as well as being adequately trained and informed on the use of the machine, MUST have adequate capability and skills for the type of working activity to be carried out and MUST be in suitable conditions to safely do so.
  IT IS FUNDAMENTAL THAT THE DRIVER IS RESPONSIBLE AND AWARE OF THE LIMITS OF USE and behaves suitable, to safeguard his own safety and that of other persons that could be involved.

DESCRIPTION OF THE MAIN PARTS

The illustration represents the main components and the list gives the description and their function.



1) **Driver's seat:** designed and built with ergonomic principles, it can be adjusted by the driver to obtain different posture conditions.
The driver can easily control and activate all machine controls from the driver's seat.
2) **Transmission unit:** axial mechanical type with differentials, it transmits drive to all wheels with four-wheel drive and makes it possible to engage the front and/or rear differential locking by means of separate controls.
- **Front axle (Tigre 4000):** transmits motion to front wheels through differential and is equipped with mechanical control differential blocking.
- **Front axle (Tigre 4400 F):** transmits drive to the front wheels by means of the differential and is equipped with differential locking and mechanically controlled traction disengagement.
- **Gear box:** has 12 fast ratio (8 forward and 4 reverse gear).
- **Power take-off (PTO):** it is used to transmit the power from the machine to the interchangeable tool (carried or towed).
The PTO has progressive mechanical coupling and can function with independent speed or at a speed synchronised with the machine advancement speed.
- **Rear axle (Tigre 4000):** transmits motion to the rear wheels through differential and is equipped with mechanical control differential blocking.
- **Rear axle (Tigre 4400 F):** transmits motion to rear wheels through the differential and is equipped with independent reducers (one per wheel) and with mechanically controlled differential blocking.

3) **Rear hydraulic couplings:** they are equipped with quick coupling fittings and are used to connect the hydraulic services of the interchangeable tools (As per standard on Tigre 4400 F model machines).
4) **Hydraulic services drive levers:** they are used to control the power lift unit and the interchangeable tools (carried or towed).
The hydraulic plant is an integral part of the machine construction.
For more details, see "Description of hydraulic circuits" heading.
5) **Steering unit:** wheels steered by fluid power through an angle proportionate to the rotation of the steering wheel. The power steering unit operates a hydraulic ram coupled to the steering gear of the wheels.
6) **Engine:** develops the power to drive all main power users on the machine.
For further details refer to the chapter "Technical data tables".
7) **Engine bonnet:** it is equipped with key lock and can be opened for necessary inspections.
The key for opening it must be kept by the person responsible for the machine so that it is not accessible to unauthorised personnel.
8) **Tank:** contains the engine fuel. There is draining point in the cap area, to allow fuel to flow out.

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9) Air filter: cleans the air entering the engine intake. On request the filter can be equipped with safety filtering cartridge.

10) Silencer: conveys the exhaust gases and reduces the noise produced by the engine.

11) Radiator: cools the liquid of the engine cooling circuit.

12) Front towing bracket: for towing the machine in case of breakdown

13) Hydraulic lift unit: with three point linkage for hitching and lifting implements.
For more details, see "Description of lift unit" heading.

14) Towing hook: used to hitch the towed interchangeable tools.

15) Dashboard: it is equipped with control devices (speed, LEDs etc.) and with controls for drive of services and utilities.
For more details, see "Description of dashboard controls" heading.

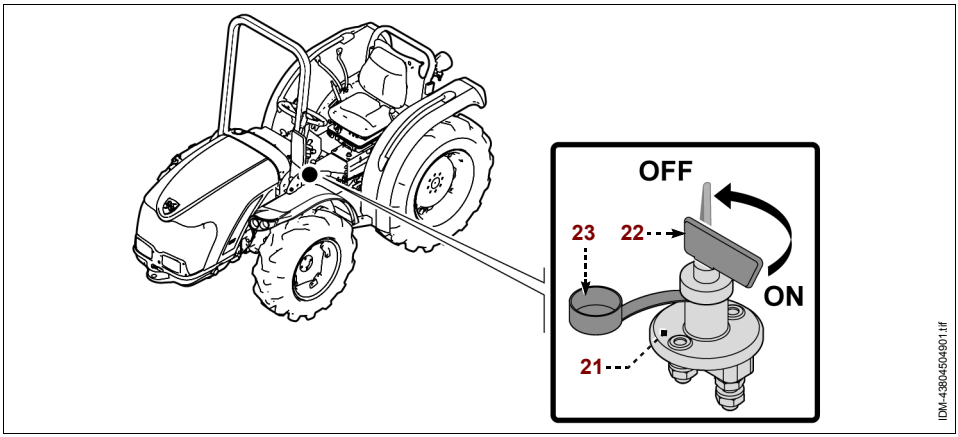
16) Toolbox

17) Support: used to support the lever device of the towed interchangeable tool braking system.

18) Trailer socket: used to connect the electrical system of a hitched trailer or implement

19) Rearview mirror: it is mandatory for road circulation of the machine.

20) Battery: it is securely fastened to the machine and is used to power the electric plant.
The connection between the battery and the electric plant can be isolated using the battery detachment device **(21)**.



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– **Control in position ON:** the battery is connected (the key **(22)** remains inserted).

– **Control in position OFF:** the battery is disconnected (remove the **(22)** key and insert the specific protection **(23)**).

The battery detachment device is used to perform interventions on the electric plant, leave the machine inactive for long periods and prevent start-up by unauthorised persons.

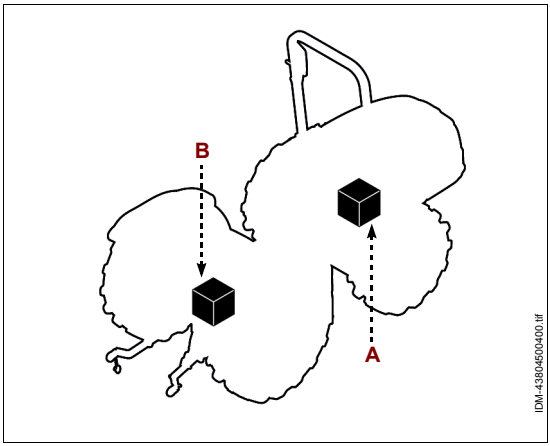
Before carrying out any welding interventions on the machine, disconnect the battery cables and any circuit board connectors , thus preventing irreversible damage to the components.

Important

To isolate the electric plant from the battery, position the control on OFF, remove the key (22) and keep it so that it cannot be accessed by unauthorised staff.

DESCRIPTION OF HYDRAULIC CIRCUITS

The illustration represents the main components and the list gives the description and their function.



A - Tank: supplies the oil to the pump , which powers the hydraulic circuits listed.
- Power supply circuit of the rear power lift unit
- Supply circuit of the rear hydraulic couplings
- Steering system supply circuit

B - Tank: contains oil to lubricate speed gearbox.

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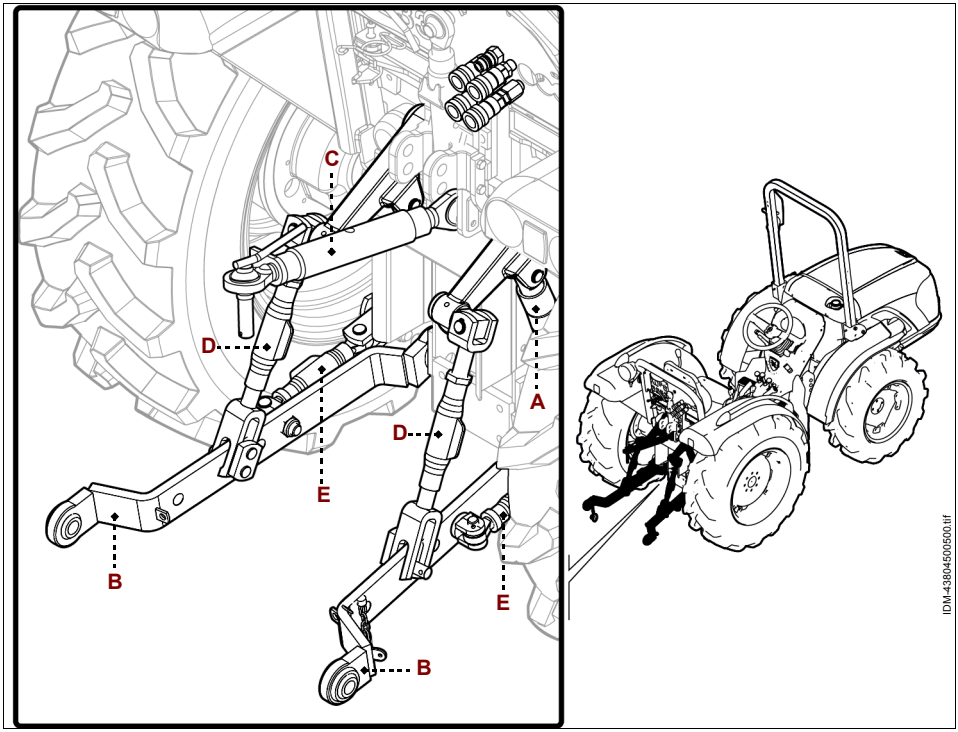
DESCRIPTION OF LIFT UNIT

In the standard configuration of the three point power lift unit (rear), it is equipped with a "ball joint" interchangeable tool hitching and disconnection system.
The illustration represents the main components and the list gives the description and their function.



A - Hydraulic cylinders: activate the movement of the lifting unit.

B - Booms: they are equipped with tie-rods **(D)** in order to regulate the height and with tie-rods **(E)** to facilitate connection of the interchangeable tools and to stabilise them.

C - Strut: used to hitch the third point of the interchangeable tool.

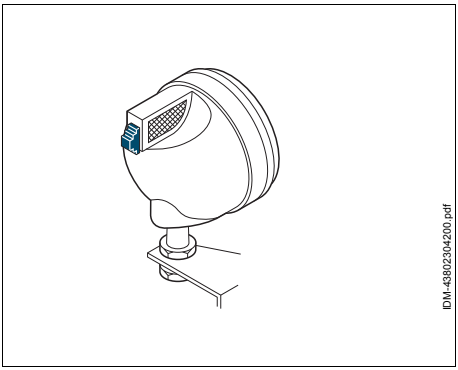
For information regarding the technical and dimensional features of the three-point lifting unit, see chapter "Technical data tables".

C34380450 2.fm

DESCRIPTION OF THE EQUIPMENT ON REQUEST (TIGRE 4000)

To enhance the performance and versatility of the machine, the manufacturer offers the following accessories.

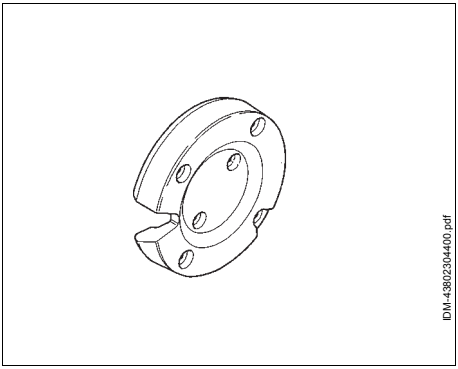
– **Rear work light (pivotable):** to light the work areas in conditions with little visibility



– **Wheel ballasts:** used to increase machine stability and can be installed on front or rear wheels.
The installation of ballasts is not foreseen on the front structure of the machine.

Important

To determine the weight and quantity of ballasts to install depending on the working requirements, see "Wheel ballast installation".



– **Air filter internal cartridge:** particularly useful for prolonged jobs with the machine at maximum performance with heavy duty environmental conditions (dust, humidity, etc.).

– **Seat with pneumatic springs:** to improve the driver's comfort.

– **Steering brakes**

– **Clutch for engaged PTO under load through lever**

– **Kit for widening front and rear mudguards**

– **Hydraulic distributors:** in the order phase, as well as the lever distributor supplied as per standard, the machine can be requested with an additional distributor with one or more elements, in order to activate the interchangeable equipment to be used.

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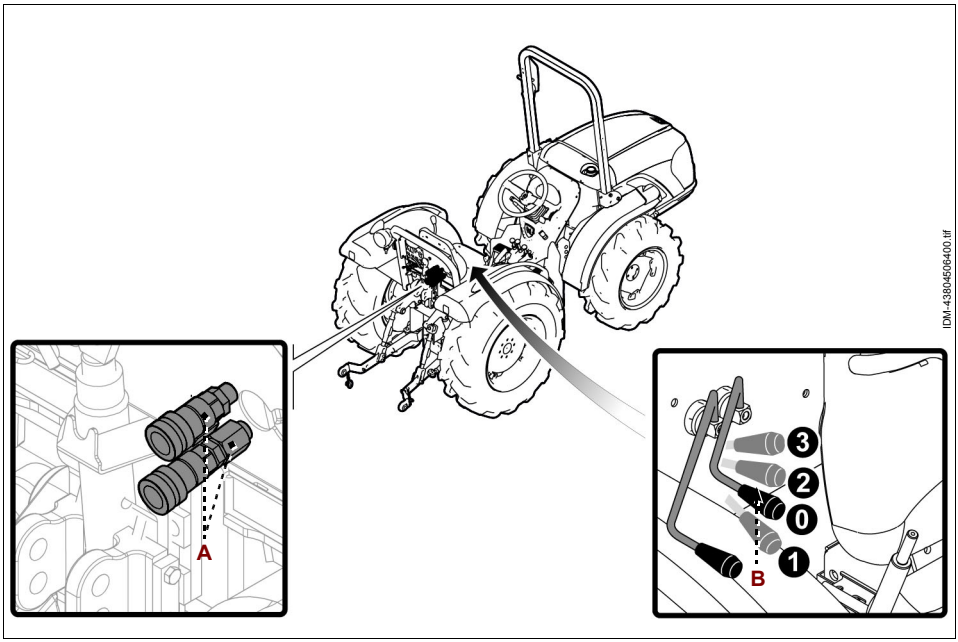
The illustrations depict the different types of distributors available and the main features and functionalities.

Hydraulic distributor (Optional 1).
Two-lever distributor: used to power the hydraulic couplings **(A)**.



Lever (B): double acting (with floating position).

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.
  On release from the position "1-2", the control goes back to position "0".
- **Control in position 3:** "floating" mode activation.
  With the lever in this position, oil flows freely through the external pressure ports **(A)** in both directions, allowing the implement to "float" and follow the ground contours unchecked.

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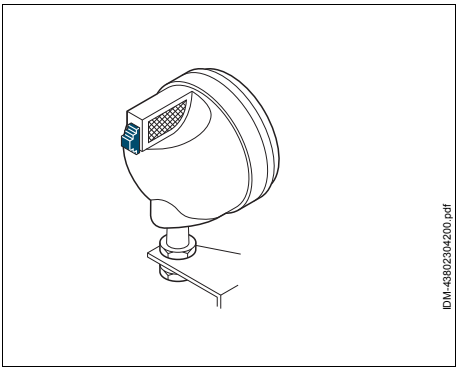
DESCRIPTION OF THE EQUIPMENT ON REQUEST (TIGRE 4400 F)

To enhance the performance and versatility of the machine, the manufacturer offers the following accessories.

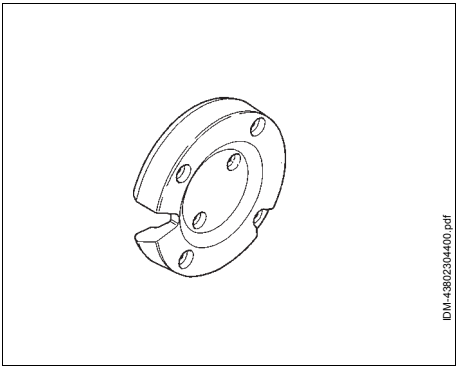
– **Rear work light (pivotable):** to light the work areas in conditions with little visibility



– **Wheel ballasts:** used to increase machine stability and can be installed on front or rear wheels.
The installation of ballasts is not foreseen on the front structure of the machine.

Important

To determine the weight and quantity of ballasts to install depending on the working requirements, see "Wheel ballast installation".



– **Air filter internal cartridge:** particularly useful for prolonged jobs with the machine at maximum performance with heavy duty environmental conditions (dust, humidity, etc.).

– **Seat with pneumatic springs:** to improve the driver's comfort.

– **Steering wheel adjustment:** to improve the driver's comfort.

– **Hydraulic distributors:** in the order phase, as well as the lever distributor supplied as per standard, the machine can be requested with an additional distributor with one or more elements, in order to activate the interchangeable equipment to be used.

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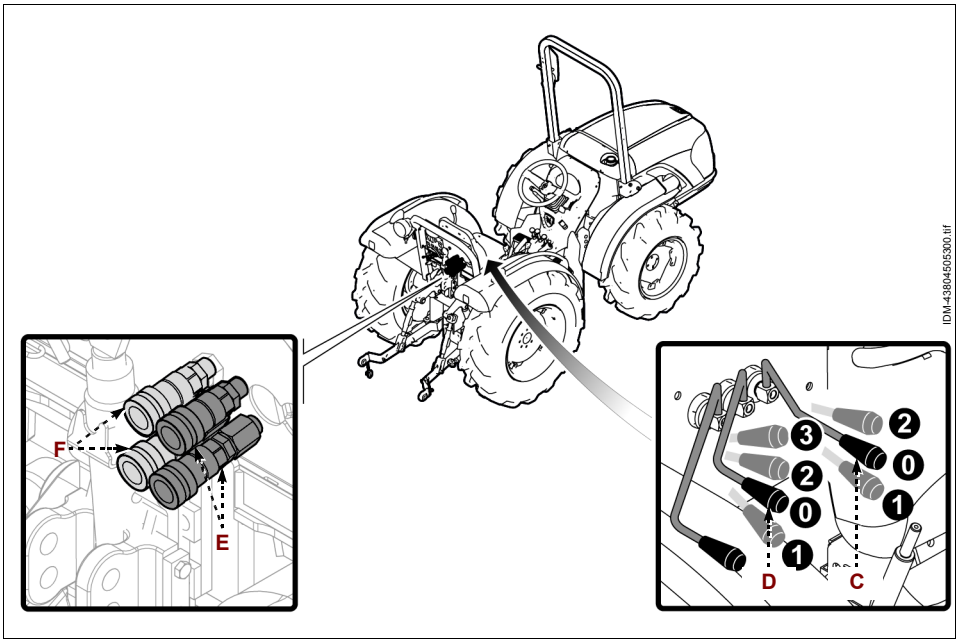
The illustrations depict the different types of distributors available and the main features and functionalities.

Hydraulic distributor (Optional 1).

Two-lever distributor: used to power the hydraulic couplings **(E-F)**.



Lever (C): double-acting.

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.

On release from the position "1-2", the control goes back to position "0".

Lever (D): double acting (with floating position).

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.

On release from the position "1-2", the control goes back to position "0".

- **Control in position 3:** "floating" mode activation.

With the lever in this position, oil flows freely through the external pressure ports **(E)** in both directions, allowing the implement to "float" and follow the ground contours unchecked.

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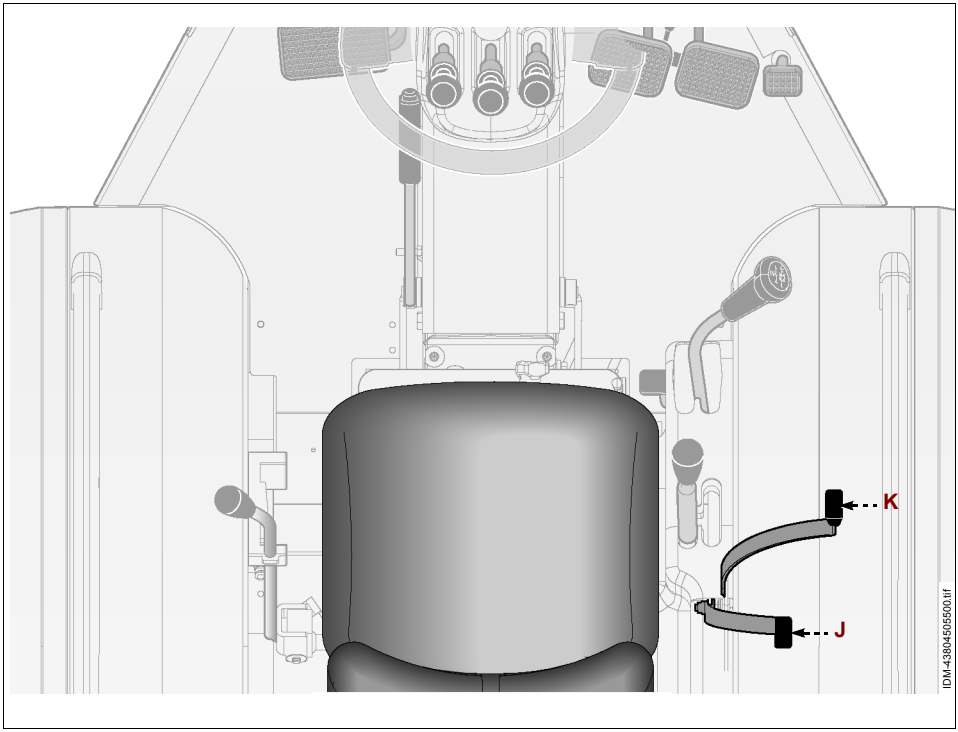
Hydraulic distributor (Optional 2).

"Controlled force" distributor: used to set the operating modes of the lifting unit as listed below: controlled position, controlled force and mixed control.



– Lever **(K)** used to adjust the position of the equipment during use.

– Lever **(J)** used to pace the force on the equipment during use.
For further information, see "(Tigre 4400 F) "Controlled effort" power lift unit use".

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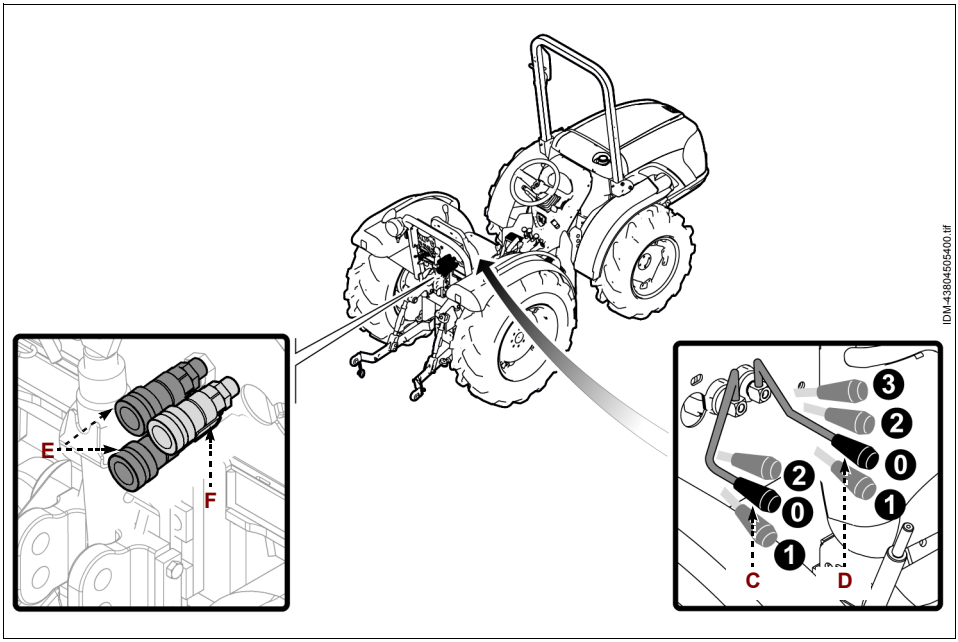
Hydraulic distributor (Optional 3).

Two-lever distributor: used to power the hydraulic couplings **(E-F)**.



Lever (C): single-acting.

- **Control in position 0:** drive deactivated.
- **Control in position 1:** Oil draining action.
- **Control in position 2:** oil flow supply.

  On release from the position "2", the control goes back to position "0".

Lever (D): double acting (with floating position).

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.

  On release from the position "1-2", the control goes back to position "0".
- **Control in position 3:** "floating" mode activation.

  With the lever in this position, oil flows freely through the external pressure ports **(E)** in both directions, allowing the implement to "float" and follow the ground contours unchecked.

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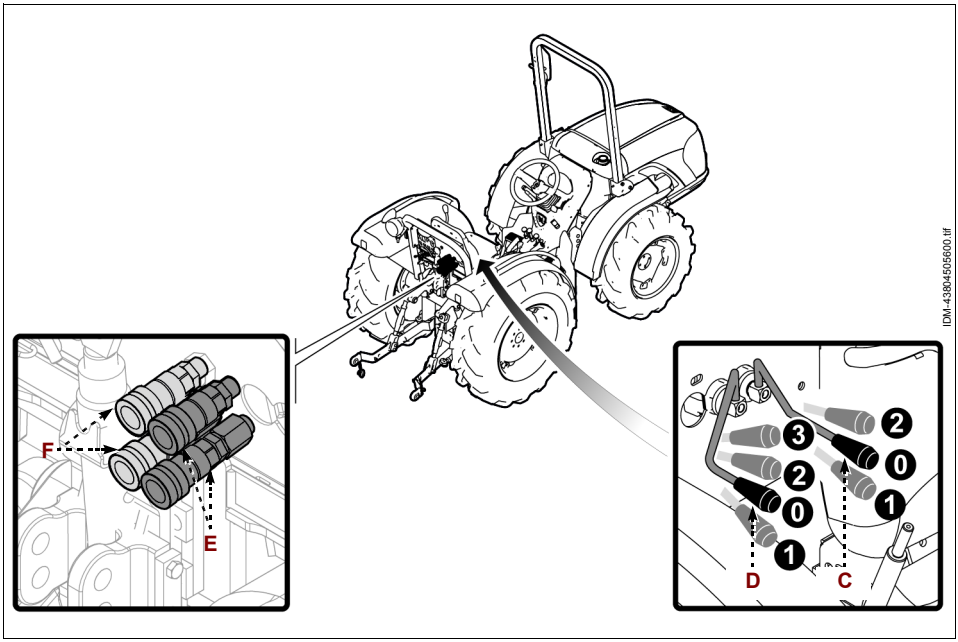
Hydraulic distributor (Optional 4).

Two-lever distributor: used to power the hydraulic couplings **(E-F)**.



Lever (C): double-acting.

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.

  On release from the position "1-2", the control goes back to position "0".

Lever (D): double acting (with floating position).

- **Control in position 0:** drive deactivated.
- **Control in position 1:** oil flow supply.
- **Control in position 2:** oil flow supply.

  On release from the position "1-2", the control goes back to position "0".
- **Control in position 3:** "floating" mode activation.

  With the lever in this position, oil flows freely through the external pressure ports **(E)** in both directions, allowing the implement to "float" and follow the ground contours unchecked.

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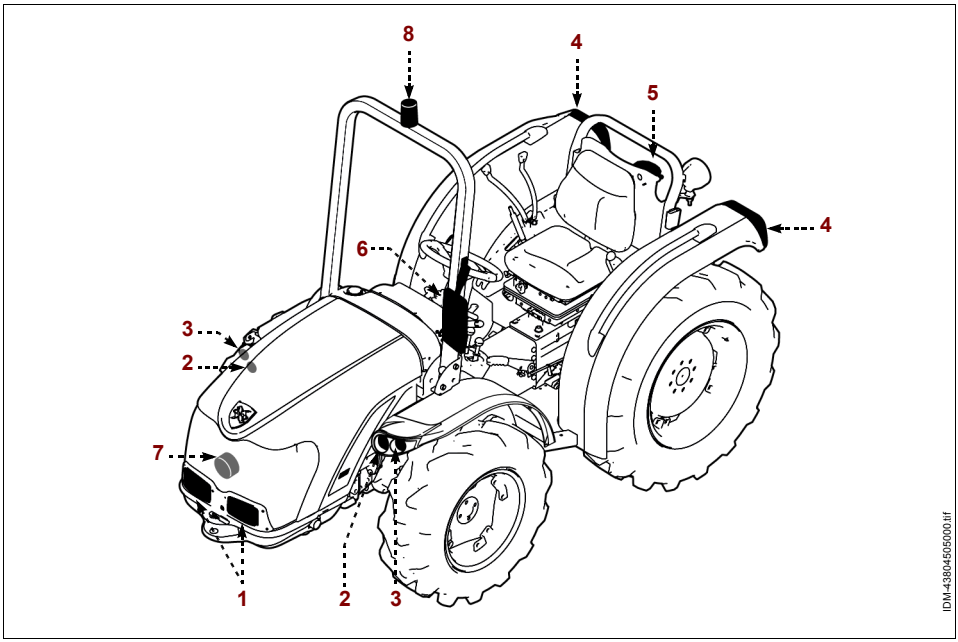
DESCRIPTION OF DEVICES FOR DRIVING ON PUBLIC ROADS

The figure shows the location of the various safety devices on the machine.



1) Headlights
2) front sidelights
3) front direction indicators
4) Tail lights and rear direction indicators
5) Licence plate light
6) Rear view mirror
7) Horn
8) Beacon (orange light) (optional).

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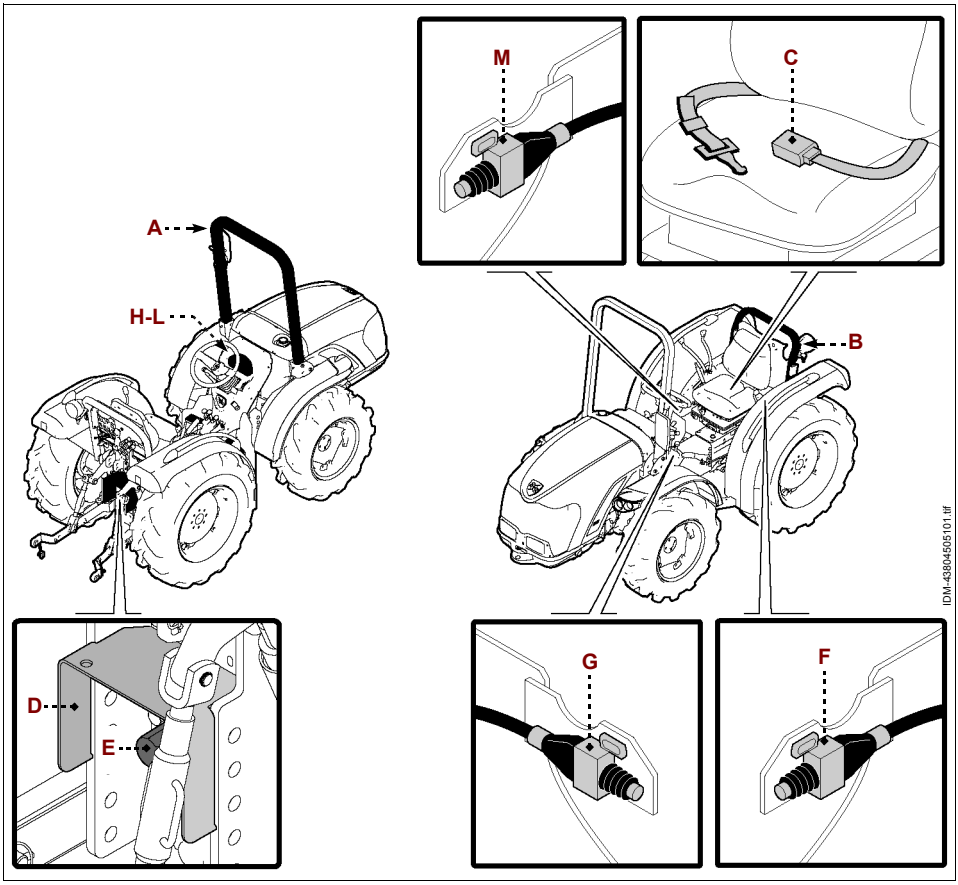
DESCRIPTION OF SAFETY DEVICES

The illustration represents the position of the devices and the list gives the description and their function.



A - Front safety arch (ROPS): protects the driver if the machine overturns.

B - Rear safety arch (ROPS): protects the driver if the machine overturns.

Important

The ROPS devices are subjected to tests to carry out the safety device function in case of overturning or side tilting.

C - Seat belt

D - Protection shield: in combination with the Cardan shaft protection, it prevents contact with the machine PTO.

E - Protection hood: prevents accidental contact with the PTO coupling and keeps it integral.

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F - **Sensor:** detects the functioning state of the PTO control. When the PTO is activated, the sensor prevents the start-up of the engine (In the Tigre 4000 model the device is only present if the machine is equipped with PTO clutch).

G - **Sensor:** detects the position of the clutch pedal. When the pedal is not pressed, the sensor inhibits starting the engine and stops it.

H - **Luminous LEDs:** individually or, when combined, they indicate a functioning anomaly or that a work control is activated.
For more details, see "Description of instruments and LEDs" heading.

L - **Horn:** signals, when combined with the switch-on of the dashboard LEDs , a functioning anomaly.

M - **Sensor:** detect the position of the control for choosing PTO operational mode. When the control is in neutral position, the sensor consents to starting the motor.

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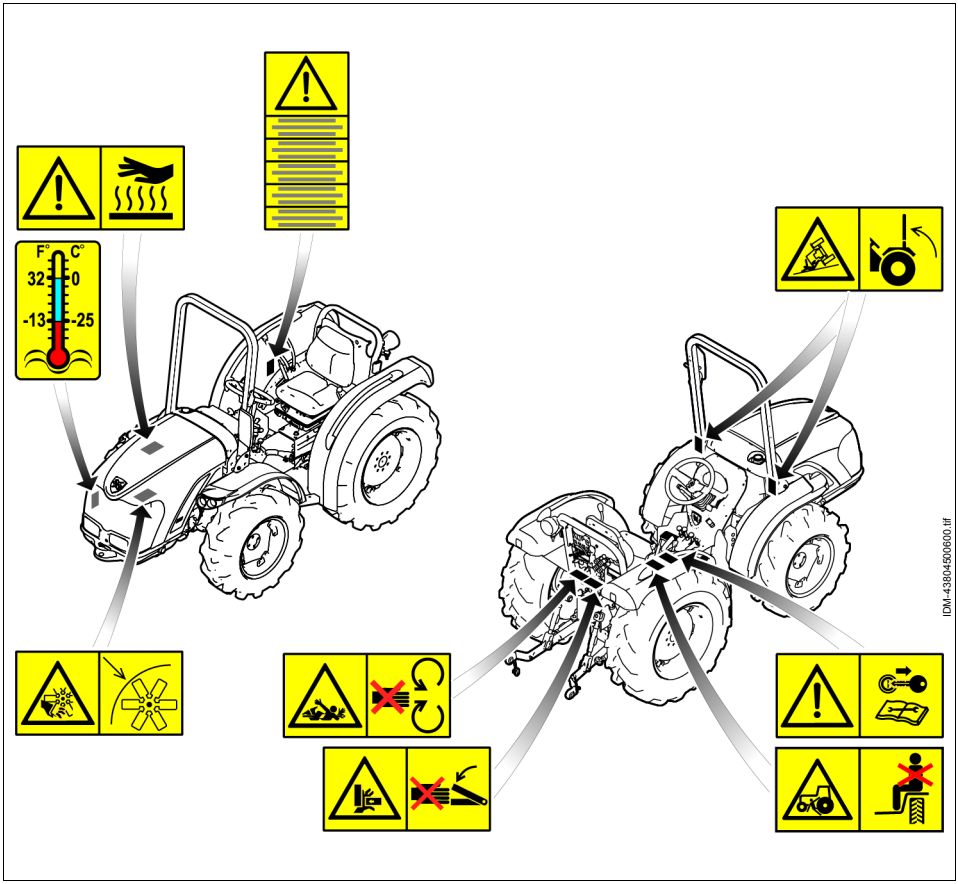
POSITION SAFETY SIGNALS AND INFORMATION

The illustration indicates the positions of the safety plates. Their meaning is described in paragraph "Description of safety signs".

Important

Make certain that all plates and stickers are clearly legible; it not, wipe clean, or if necessary renew, positioning the replacement at the same point on the machine.



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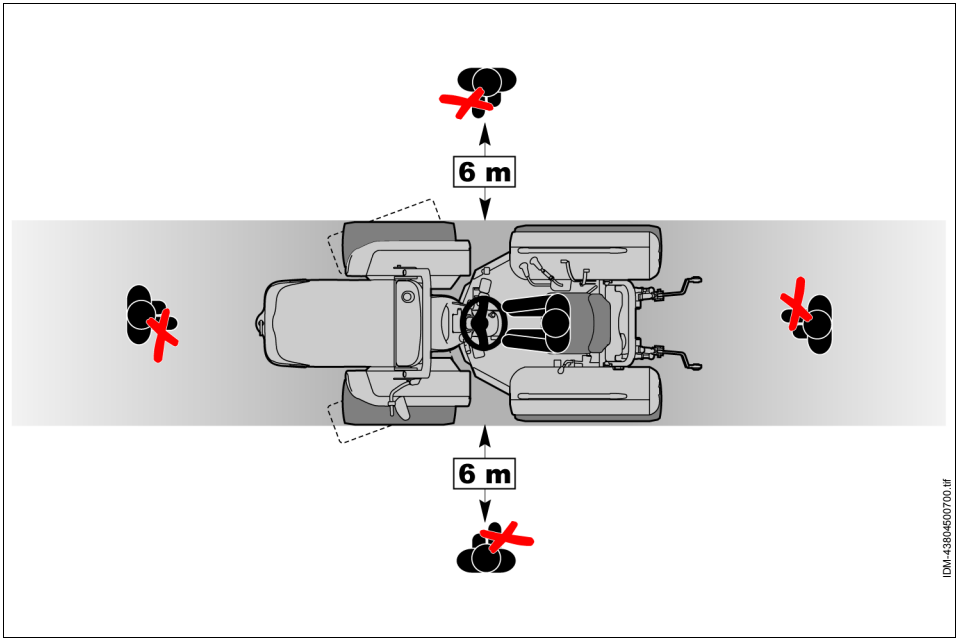
DANGEROUS AREAS AND ZONES

The figure shows the potentially dangerous area in which nobody should stand while the machine is in use. It is the operator's responsibility to ensure that nobody enters this area. If necessary, stop the machine and move people to a safe distance.



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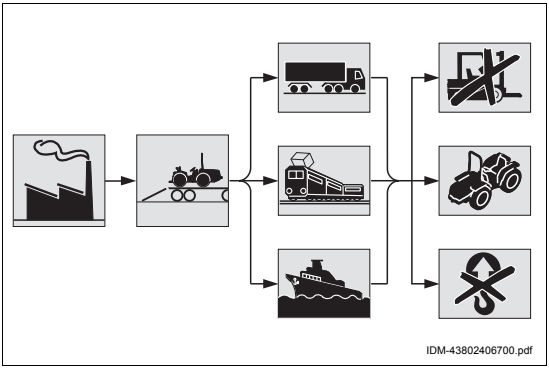
RECOMMENDATIONS FOR HANDLING, LOADING AND UNLOADING

When handling and loading, refer to the information provided by the manufacturer, indicated directly on the machine, at the driving position and in the operating manual.

METHOD OF TRANSPORT

Depending on the destination, various types of vehicle may be used to transport the machine.
The figure shows typical transport solutions.



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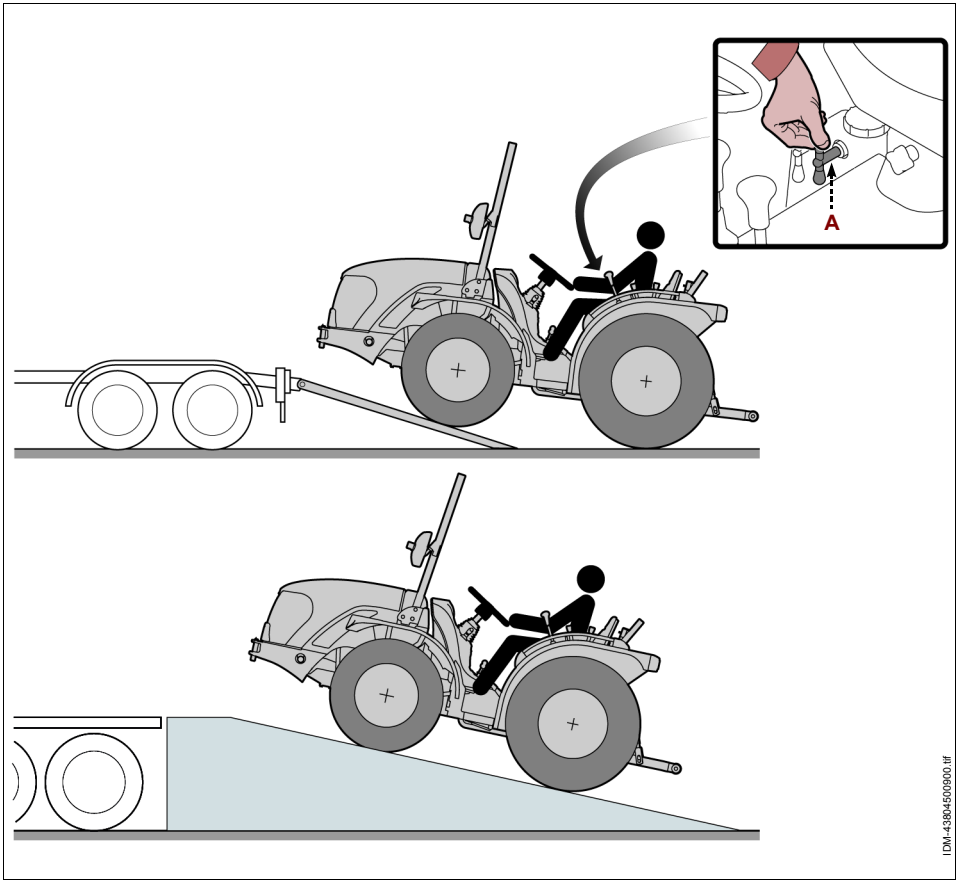
LOADING AND UNLOADING METHOD



For this operation, proceed as follows.

1. Start the engine.
2. Raise the hydraulic lift by operating the relative controls
   For more details, see "Description of power lifting unit controls (standard)" heading.
   If the machine is started up in order to move it, operators must be aware of the procedures necessary to do so in safety.
3. Screw the knob completely **(A)** to block the power lift unit in the lifted position (For machines with draft control hydraulic lift system only).
4. Remain properly seated in the driving position, and drive the machine on to the transporting vehicle.

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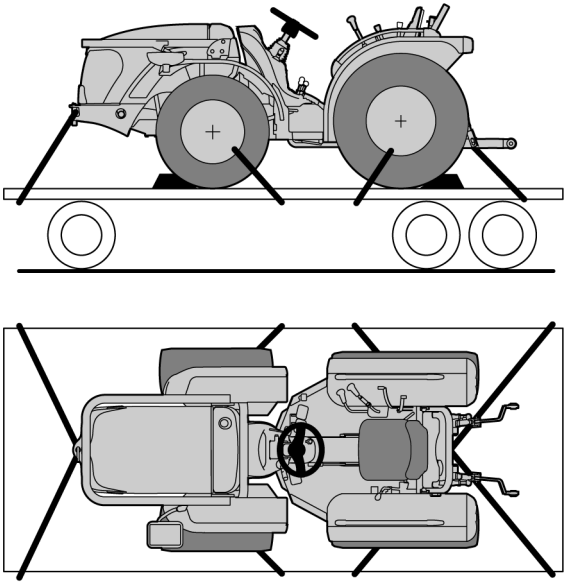
Caution
Precaution

Make sure that the ramps used to load the machine on to the vehicle are suitable for the weight of the machine.

5. Switch off the engine, apply the parking brake, engage a low ratio gear and remove the ignition key.
6. Anchor the machine to the vehicle with ropes and wheel chocks, as in the illustration.



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7. Control that the machine shape does not exceed the maximum clearance of the means of transport and, if necessary, lower the safety arch.

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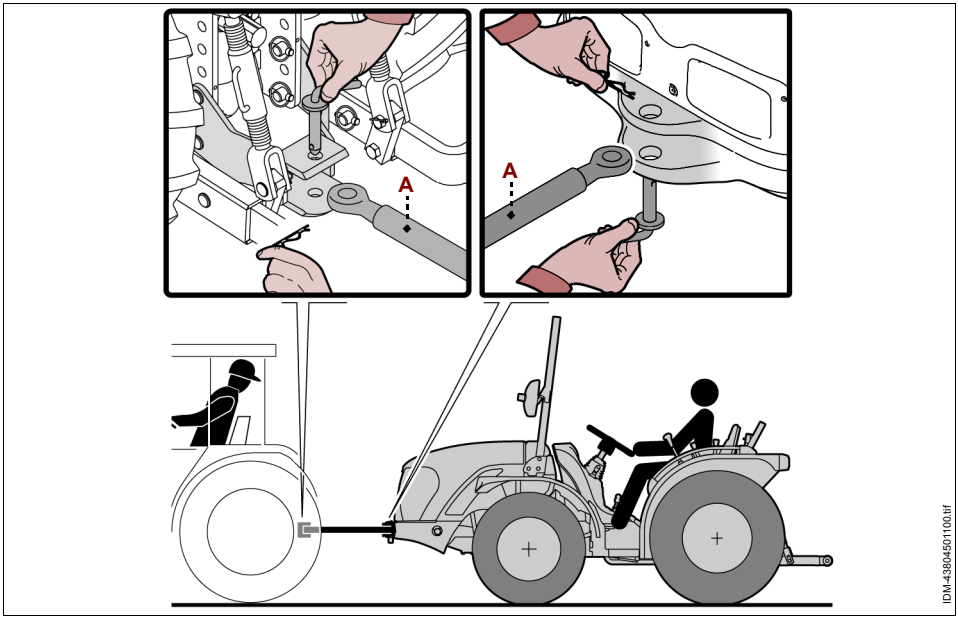
MACHINE EMERGENCY TOWING METHOD



Proceed as indicated.

1. Hitch the bar **(A)** to the front emergency hook of the machine and that in the middle used for towing.

   Important

   Control that the hitching pins are correctly inserted and blocked using the relative safety pins in order to prevent accidental disconnection.

2. Position the gear lever and the reverser lever in neutral.
3. Disengage the parking brake.
4. Tow the machine with an operator seated in the driving position.
   If possible, tow the machine with its engine running to permit the hydrostatic steering system to operate.
   The steering will feel heavier if the machine is towed with the engine off.

   Important

   Only use vehicles of adequate size and power to tow the machine. Towing must be limited to short distances and towing speed must not exceed 10 km/h.

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On completion of towing, return the machine immediately to normal operating conditions.

RECOMMENDATIONS REGARDING REGULATIONS

Staff carrying out interventions must know the procedures, respect the safety warnings and adopt the necessary measures for safety in the work place.
Unless otherwise indicated, every adjustment must be carried out with machine stopped in safe conditions.

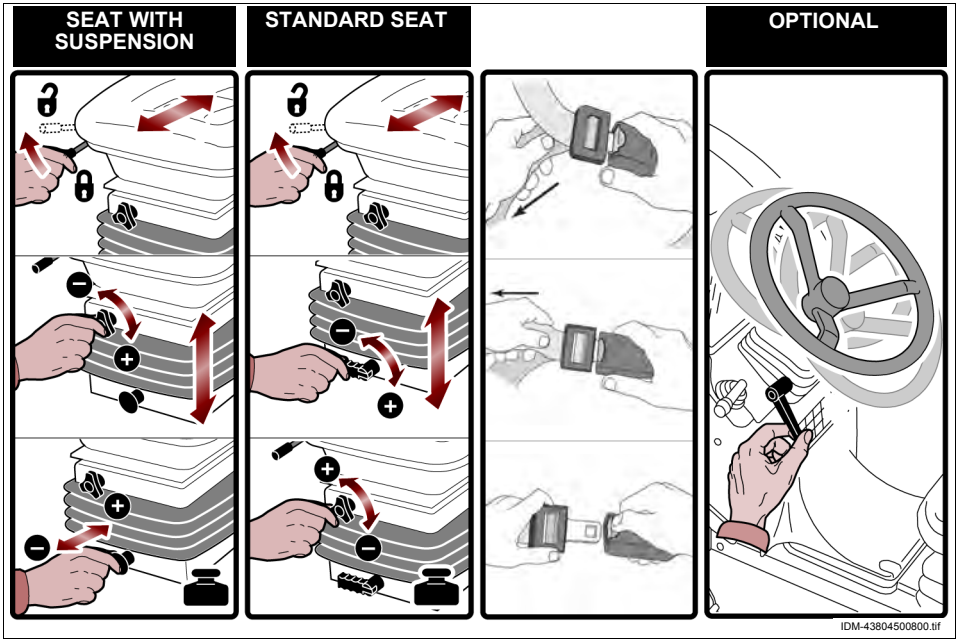
Machine stopped in safe conditions

This state foresees the listed conditions to be carried out in the indicated order.
- Position the machine on to a stable and flat surface.
- Engage the reverser lever in the "forward gear" or "reverse gear" position. (if present)
- Position the gearbox lever in "first gear".
- Engage the parking brake of the machine.
- Deactivate the PTO of the machine.
- a) With equipment carried: lower the power lift unit until it rests on the ground.
- b) With equipment towed: engage the parking brake of the equipment.
- Switch off the engine and remove the ignition key.
- Place the safety wedges below the wheels to improve stopping conditions.

ADJUSTING THE DRIVING POSITION

Operators can adjust the steering wheel and the driving seat to achieve maximum comfort for their own stature.

The illustrations represent how to perform the necessary regulations.



Caution
Precaution

Only make adjustments with the machine stationary.
After having made the regulation, control that the steering wheel is blocked in position.

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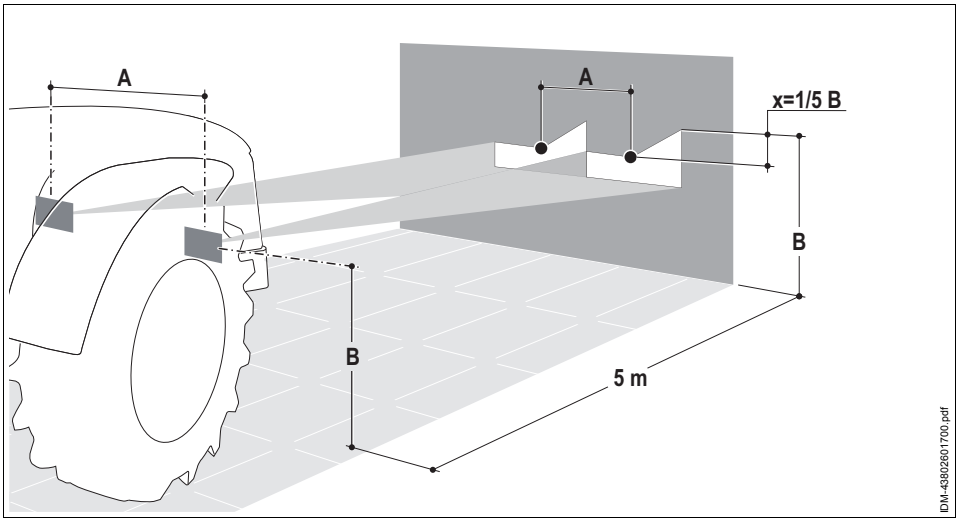
ADJUSTMENT OF HEADLIGHTS

Proceed as indicated.

– Position the machine on level ground at a distance of 5 metres from a wall. Check that there is no load on the machine and that the pressure of the tyres is normal and correct.



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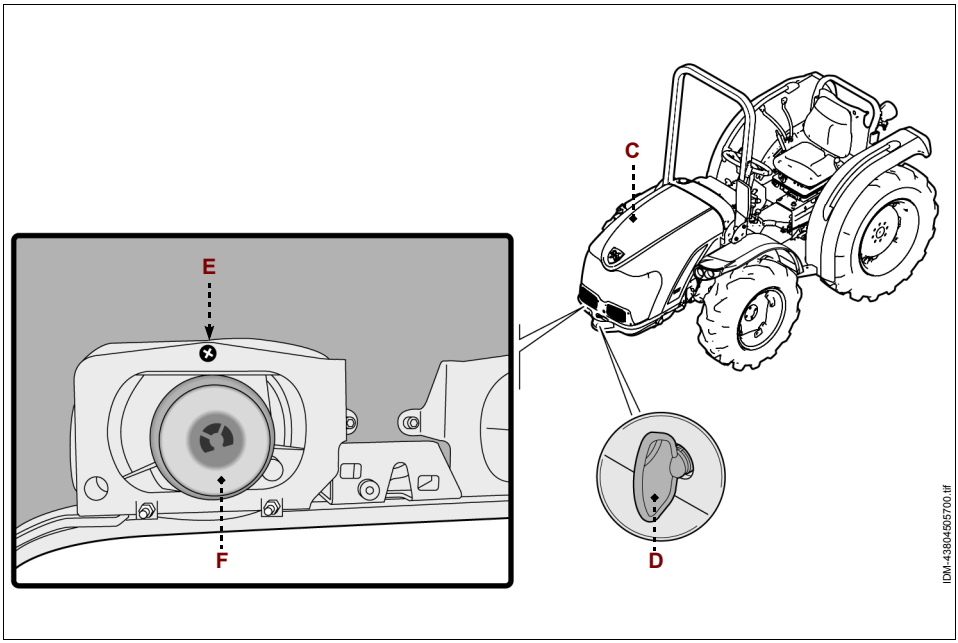
– Switch the low beam lights on and check that orientation is correct (see figure). If the orientation is not correct, proceed as indicated.

1. Stop the machine and activate all relevant safety devices.
2. Open engine bonnet **(C)** using the key **(D)**.



3. Turn the screws **(E)** one way or the other to adjust the position of the lights **(F)**.
4. Shut the hood when finished.

Important

When driving on the road, the headlights must be adjusted so as not to dazzle the drivers of other vehicles, and in accordance with the regulations of the highway code.

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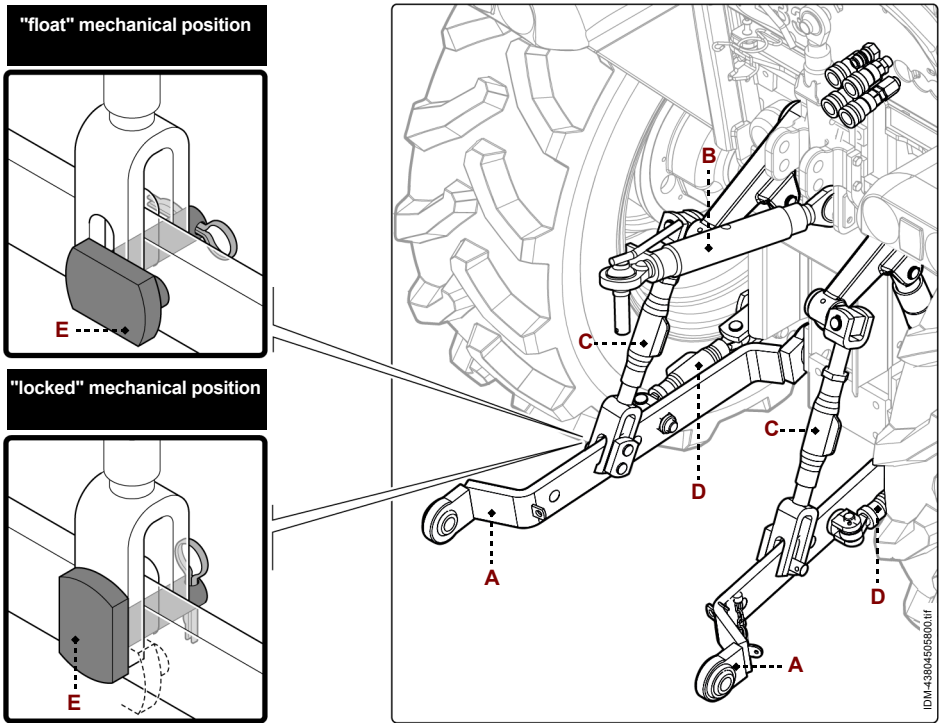
REGULATION OF THE REAR LIFTING UNIT

The regulation must be made every time the machine is coupled with an interchangeable tool, which has hitching points different to those previously mounted.

If it is the first time that coupling is performed with a type of carried interchangeable tool, it is necessary to check that the weight (at its barycentre) is compatible with the maximum capacity accepted at the machine hitching point.

Evaluate whether it is necessary to install ballasts, in a way to m maintain the stability of the machine during working phases.



1. Approach the machine to the interchangeable tool to be hitched.
2. Lower the booms of the power lift unit to the height of the hitching points of the interchangeable tool.
3. Stop the machine and activate all relevant safety devices.
4. Release the safety retainers of the tie-rods **(C)** and regulate them to define the height of the booms **(A)**.
5. If necessary, remove the pins **(E)** and refit them the other way round so that the lift links are able to float mechanically.

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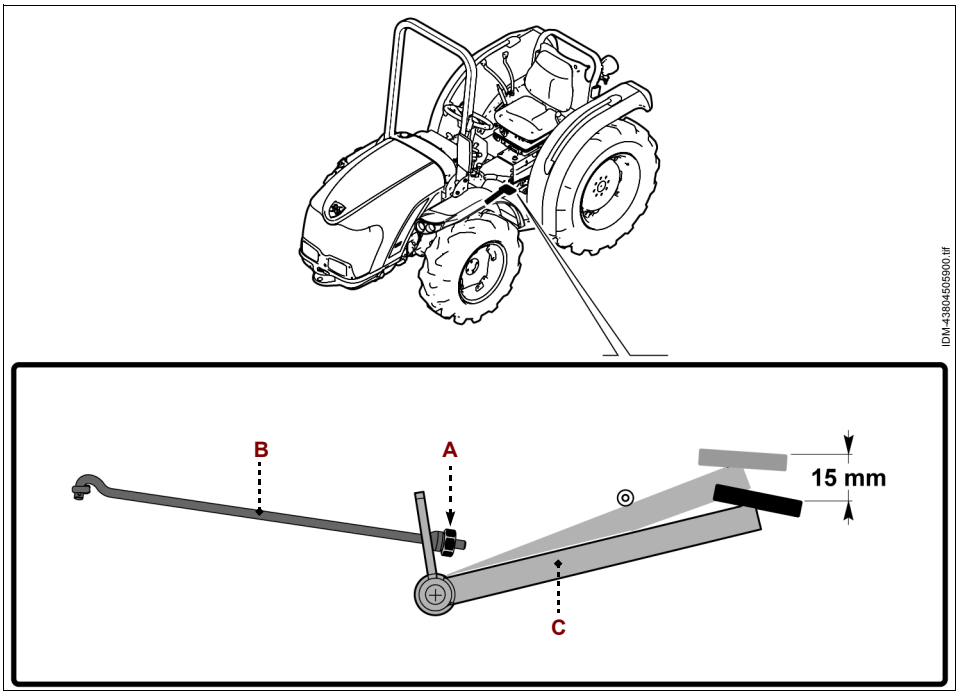
6. Release the safety retainers of the strut **(B)**, regulate its length and block the retainer again.

The tie-rods **(D)** are used to stabilise the lifting booms **(A)** after having hitched the interchangeable tool.

ADJUSTMENT OF CLUTCH PEDAL TRAVEL



For this operation, proceed as follows.

1. Stop the machine and activate all relevant safety devices.
2. Loosen the lock nut **(A)**.
3. Adjust the length of the rod **(B)** to set the free travel of the clutch pedal **(C)**.
4. Once the operation is complete, tighten the lock nut **(A)**.

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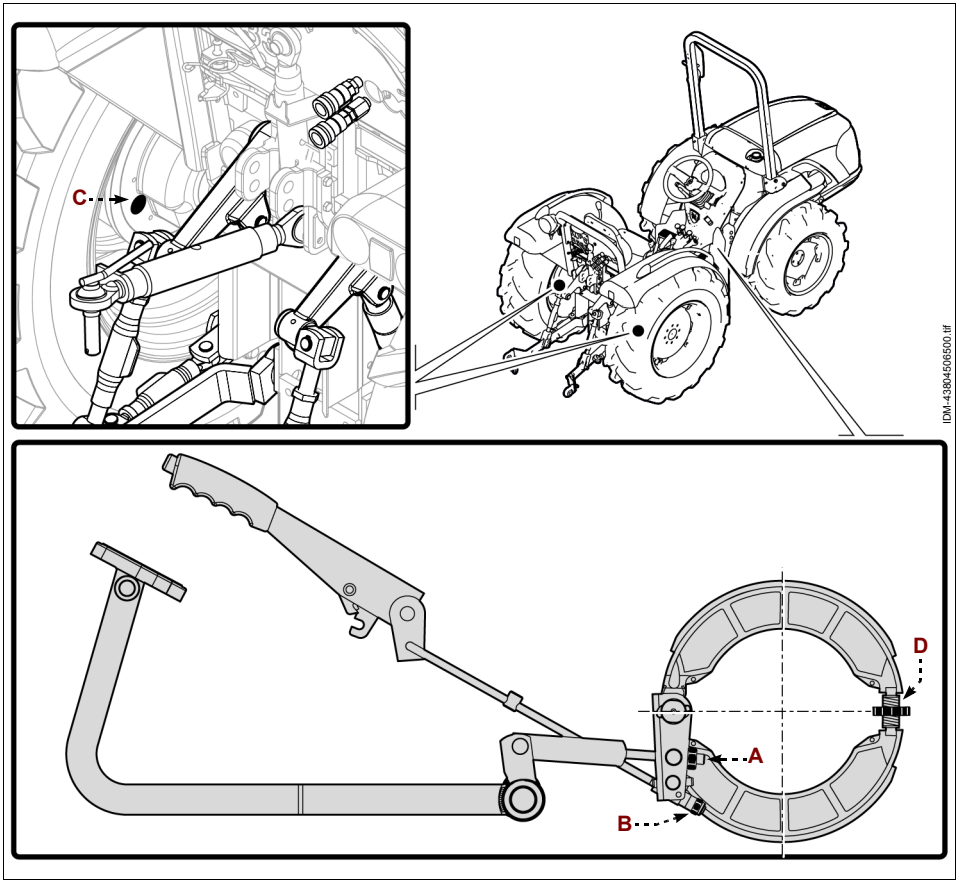
Important

The clutch pedal linkage must be checked periodically to ensure that free travel is within the value illustrated.
Excessive play in the pedal linkage has the effect of reducing declutch travel and can prevent the gears from engaging smoothly.
Insufficient play on the pedal determines abnormal wear of the thrust bearing and can make it difficult to insert the gears and can cause the clutch to slip.

BRAKE (TIGRE 4000) PEDAL ADJUSTMENT

Important

This operation must be performed in a workshop equipped with suitable tools and by staff with precise technical skills.



Whenever you notice the brakes becoming less effective, perform the following adjustment equally on both brakes.

For this operation, proceed as follows.

1. Stop the machine and activate all relevant safety devices.
2. Loosen the lock nut **(A-B)**.
3. Remove the drain plug **(C)**.
4. Turn the ring nut **(D)** manually for the jaws to drag slightly on the drum.
5. Unscrew the ring nut **(D)** by 2÷3 clicks.
6. Tighten the lock nut **(A-B)** on completion of adjustment.
7. Re-mount the cap **(C)**.

C54304502.fm

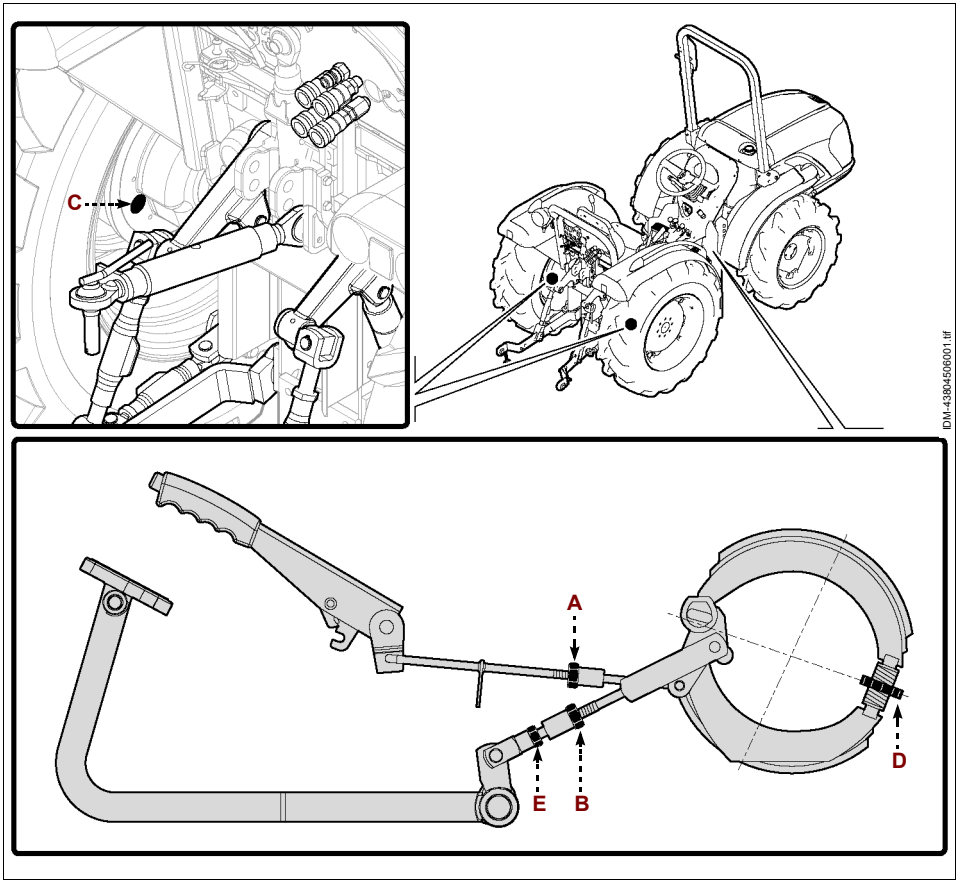
Important

It is necessary to periodically check that the brake pedal has no spare travel.

BRAKE (TIGRE 4400 F) PEDAL ADJUSTMENT

Important

This operation must be performed in a workshop equipped with suitable tools and by staff with precise technical skills.



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Whenever you notice the brakes becoming less effective, perform the following adjustment equally on both brakes.

For this operation, proceed as follows.

1. Stop the machine and activate all relevant safety devices.
2. Loosen the lock nut **(A-B-E)**.

3. Remove the drain plug **(C)**.
4. Turn the ring nut **(D)** manually for the jaws to drag slightly on the drum.
5. Unscrew the ring nut **(D)** by 2÷3 clicks.
6. Tighten the lock nut **(A-B-E)** on completion of adjustment.
7. Re-mount the cap **(C)**.

Important

It is necessary to periodically check that the brake pedal has no spare travel.

TRACK CHANGE-OVER

Before changing the track, consult the paragraph "Machine tracks" to evaluate and identify the most suitable for the effective operational requirement.

This operation must be performed in a workshop equipped with suitable tools and by staff with precise technical skills.

After every track change operation it must be checked that the wheels do not interfere with the bodywork or other parts of the machine.

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RECOMMENDATIONS FOR USE AND FUNCTIONING

– **Accidents involving the use of tractors depend on many factors, some of which cannot be prevented or controlled.**
Some accidents may depend on unforeseeable environmental factors. Many, however, are caused by reckless driving.

– **At first use, the driver must ONLY use the machine after having read the use and maintenance manual, having identified the control functions and having simulated some manoeuvres.**
The knowledge of the functions of all controls is important to perform these correctly and naturally.

– **Drive the machine carefully and responsibly, without loosing attention in order to perceive potential risks that may exist.**
Drive the machine ONLY if in suitable psycho-physical conditions and has suitable skills to perform the activities requested.

– **Before operating the machine, the driver must make sure that all safety devices are correctly installed and functioning.**

Caution is always necessary. Safety is also in the hands of the operators working the machine throughout its life span.

It is always too late to remember that which should have been done when it has already occurred.

DESCRIPTION OF CONTROLS

The controls can be divided into the following categories to make them more easily identifiable.

– Instruments and indicators
For more details, see "Description of instruments and LEDs" heading.

– Dashboard controls
For more details, see "Description of dashboard controls" heading.

– Driving and stopping controls
For more details, see "Description of advance and stop controls" heading.

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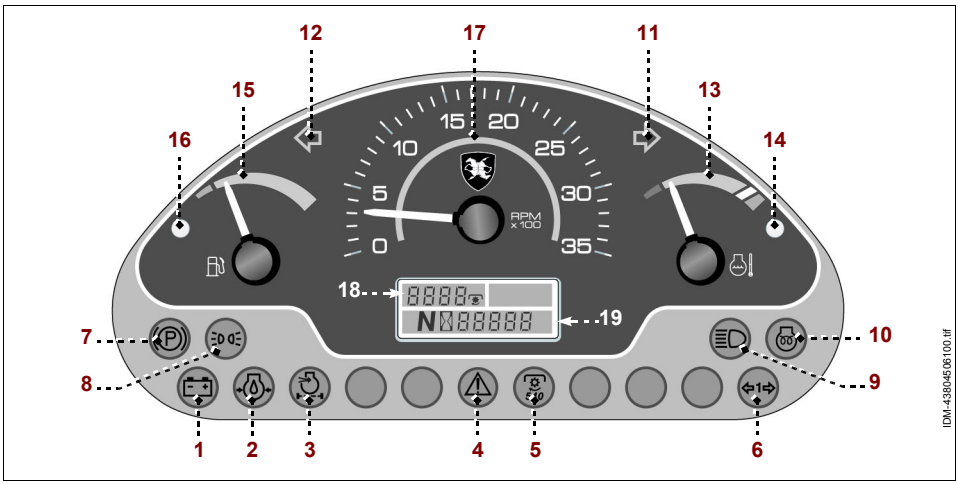
– Work controls
For more details, see "Description of work controls (Tigre 4000)" - "Description of work controls (Tigre 4400 F)" heading.

– Hydraulic lift controls standard
For more details, see "Description of power lifting unit controls (standard)" heading.

– "Controlled effort" power lifting unit controls
For more details, see "(Tigre 4400 F) "Controlled effort" power lift unit use" heading.

DESCRIPTION OF INSTRUMENTS AND LEDS

The illustration represents the devices while the list gives the description and their function.



1) Luminous LED (red light): ON indicates that the alternator does not charge the battery.

2) Luminous LEDs (red light): on with acoustic warning and warning light **(4)**, indicates that the engine oil pressure is insufficient.
The acoustic warning and warning light **(4)** remain active only if the engine is running, until the problem is eliminated.

3) Luminous LEDs (red light): on, when combined with acoustic warning and warning light **(4)**, it indicates that the filter is clogged.
The acoustic warning and warning light **(4)** remain active only if the engine is running, until the problem is eliminated.

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Important

When the LEDs (2-3-14) switch-on, stop the engine immediately so as not to cause damage.
The anomaly continues to be signalled by the reference LED on even with the engine off, because the machine has been stopped with the ignition key in position 1 (stand-by).

4) **Luminous LED (yellow light):** flashing, when combined with acoustic warning and warning lights **(2-3-14)**, it indicates machine operation anomalies.

Important

When the LED switches on , switch the engine off immediately and contact an authorised workshop to have the breakdown eliminated.

5) **Luminous LED (yellow light):** on, when combined with relative symbol on display **(18)**, it indicates that the rear PTO (with speed 540 rpm or in synchronised mode) is activated.
6) **Luminous LEDs (green light):** flashing, it indicates that the direction indicators of the interchangeable tool are inserted.
Warning light comes on when the emergency lights are activated.
7) **Luminous LED (red light):** ON indicates that the parking brake is engaged.
8) **Luminous LEDs (green light):** on, it indicates that the position lights and the low beam lights are inserted.
9) **Luminous LEDs (blue light):** on, it indicates the full beam lights are inserted.
10) **Luminous LED (yellow light):** on, it indicates the pre-heating of the engine spark plugs.
11) **Luminous LEDs (green light):** flashing, it indicates that the right direction indicators are inserted.
Warning light comes on when the emergency lights are activated.
12) **Luminous LEDs (green light):** flashing, it indicates that the left direction indicators are inserted.
Warning light comes on when the emergency lights are activated.
13) **Thermometer:** indicates the temperature of the engine cooling liquid.
14) **Luminous LEDs (red light):** on, if combined with acoustic warning and warning light **(4)**, indicates that the temperature of the cooling liquid is too high.
The acoustic warning and warning light **(4)** remain active only if the engine is running, until the problem is eliminated.
15) **Fuel level indicator**
16) **Luminous LED (yellow light):** on, it signals that the fuel is in reserve.
17) **engine revolutions (RPM)**
18) **Speedometer:** shows the number of revs. of the rear PTO (rpm).
19) **Hour counter:** counts the total number of hours worked by the machine.

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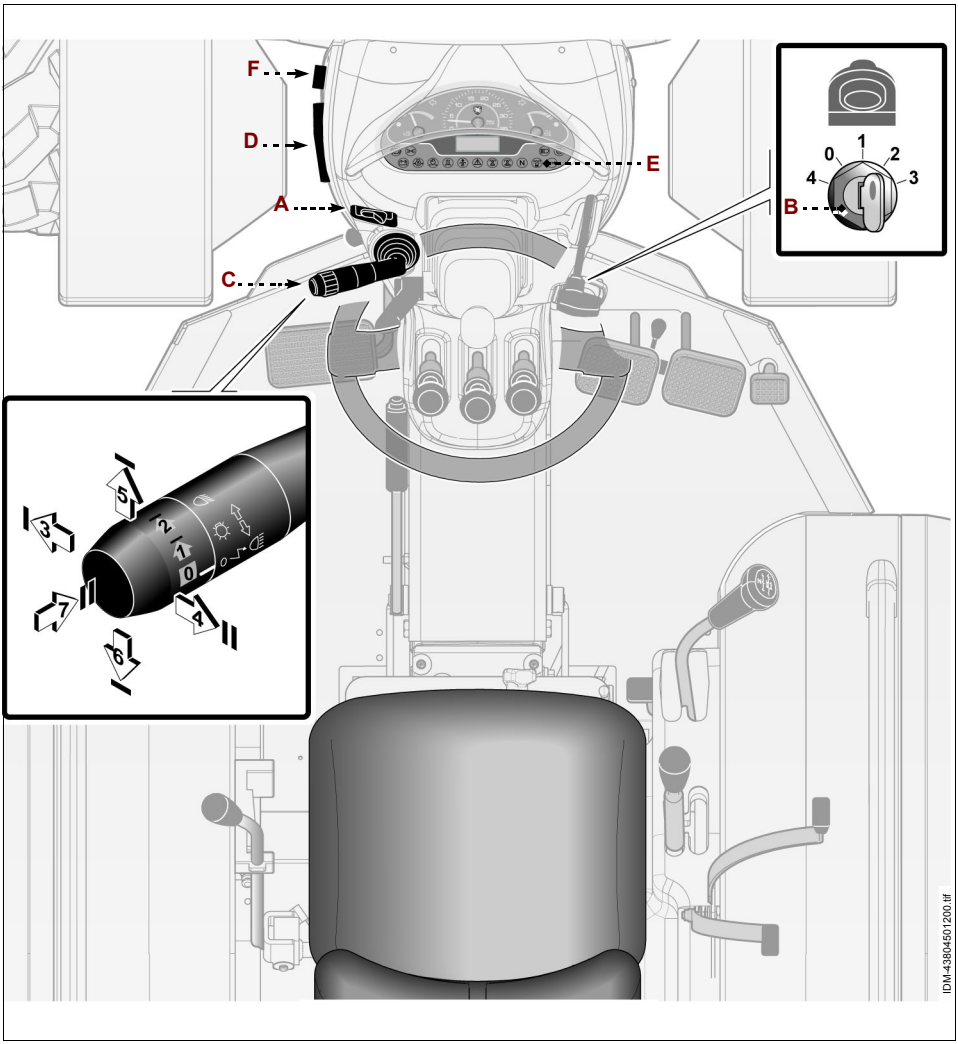
DESCRIPTION OF DASHBOARD CONTROLS

The illustration represents the devices while the list gives the description and their function.



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A - Luminous switch (red light): used to activate the emergency lights.
The light on (flashing) signals that the function is activated.

B - Starter switch: used to start the engine.
Keep the key pressed in slightly when turning the starter switch.
- **Control in position 0:** drive deactivated and key removable.
- **Control in position 1:** the lights on the dashboard turn on and the machine performs a check up to verify correct operation.

- **Control in position 2:** keep the key in position to start the engine pre-heating glow plugs.
  On release, the key goes back to position 1.
- **Control in position 3:** keep the key in position to start the engine.
  On release, the key goes back to position 1.
- **Control in position 4:** the parking lights switch on. The key can be removed.

C - **Multi-function control:** used to activate the functions listed.
- **Control in position 0 (OFF):** drive deactivated.
- **Control in position 1:** the position lights switch on.
- **Control in position 2:** the full beam lights switch on.
- **Control in position 3:** the full beam lights switch on.
- **Control in position 4:** the control activated repeatedly, activates flashing of the full beam lights.
- **Control in position 5:** the direction indicators are activated (right).
- **Control in position 6:** the direction indicators are activated (left).
- **Control in position 7:** the control pressed activates the acoustic warning (Horn).

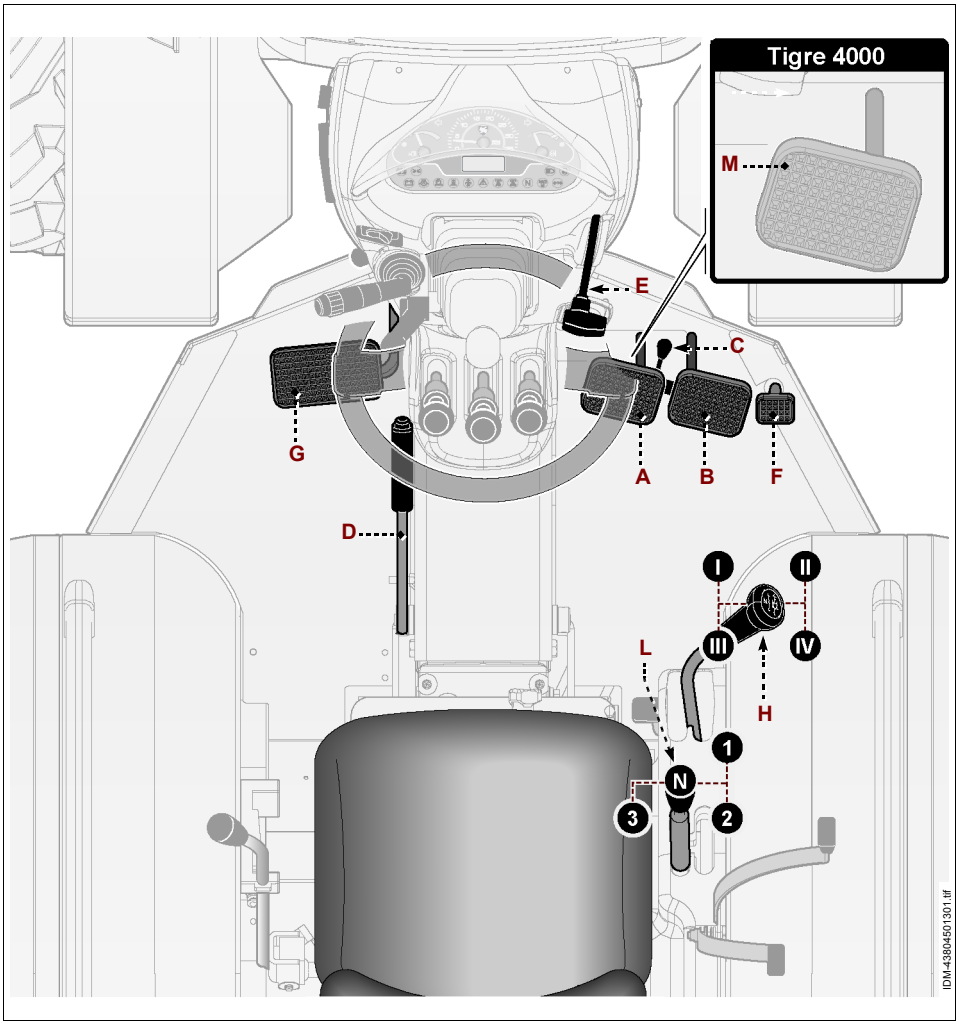
D - **Fuse box:** contains the protective fuses for the electrical system.

E - **Horn:** it signals, when combined with switch-on of a LED, an anomaly in machine functioning.
The anomaly is signalled by the horn only if the engine is running.
The anomaly continues to be signalled by the reference LED on even with the engine off, because the machine has been stopped with the ignition key in position 1 (stand-by).

F - **One-way socket:** used to connect rotating beacons or other accessories

DESCRIPTION OF ADVANCE AND STOP CONTROLS

The illustration represents the devices while the list gives the description and their function.



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A - Brake pedal: applies braking action to the left rear wheel

B - Brake pedal: applies braking action to the right rear wheel
Depressing one of the brake pedals "independently", the machine will pivot on the locked wheel (steering brake).

C - Pin: used to make the pedals integral in a way that the braking action is distributed on all wheels.
Depressing the pedals when "latched", the brakes are applied to both wheels.

Important

The two brake pedals must be utilized "independently" in special operating situations only, whereas when driving on roads, the pedals must always be "latched".

D - Parking brake lever: used to block the machine in position in the standstill or parking phases.

E - Hand throttle: used to select a constant engine speed

Caution Precaution

The hand throttle is used only when starting, and in situations where a constant engine speed is required during operation.

F - Accelerator pedal: used to vary the advancement speed of the machine.

G - Clutch pedal: used to operate the clutch when selecting the gears

H - gearshift lever: used to select the gear

L - Lever: used to select the speed range ("fast" or "slow") and the travel direction.

- **Control in position (N)**: gear in neutral.
- **Control in position 1:** "slow" fast range
- **Control in position 2:** "fast" speed range
- **Control in position 3:** "reverse" gear machine

In order to disengage reverse gear it is necessary to slightly pull the lever towards the driver's seat and then push it forward.

M - Brake pedal: used to slow and/or stop the machine