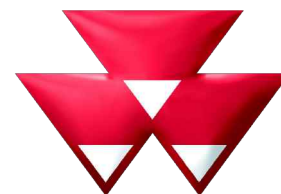


Operator's Manual



MASSEY FERGUSON

Beauvais
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Original Operator's Manual

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Foreword

We would like to welcome you to the ever-growing number of people who own a Massey Ferguson tractor; people who appreciate quality. We are proud of every tractor that leaves our factories, each being technically advanced and of a high quality.

This Operator's Manual contains the specifications for your new tractor. Please ensure that all operators read the instructions and follow them carefully. The pages that follow contain vital information on your tractor; please read them carefully.

Your Massey Ferguson dealer will guarantee you quality servicing and will provide you with all the assistance you need. When it comes to servicing, remember that your dealer knows your tractor best and that he wants you to be completely satisfied.

Please leave this Operator's Manual in the tractor if resold. The subsequent owner will need the information it contains.

All information and specifications in this manual are up to date at the time of publication. However, our ongoing policy to improve our products obliges us to reserve the right to make alterations at any time without notice.

Please note that this manual relates to all models and refers to both standard and optional equipment. You may therefore find details relating to equipment that is not fitted on your tractor.

This Operator's Manual complies with Directive 2010/52 EC.

Massey Ferguson

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1. Tractor identification

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1.1 Locating serial numbers

1.1.1 Locating serial numbers

IMPORTANT: Tell your dealer or agent the tractor serial number.

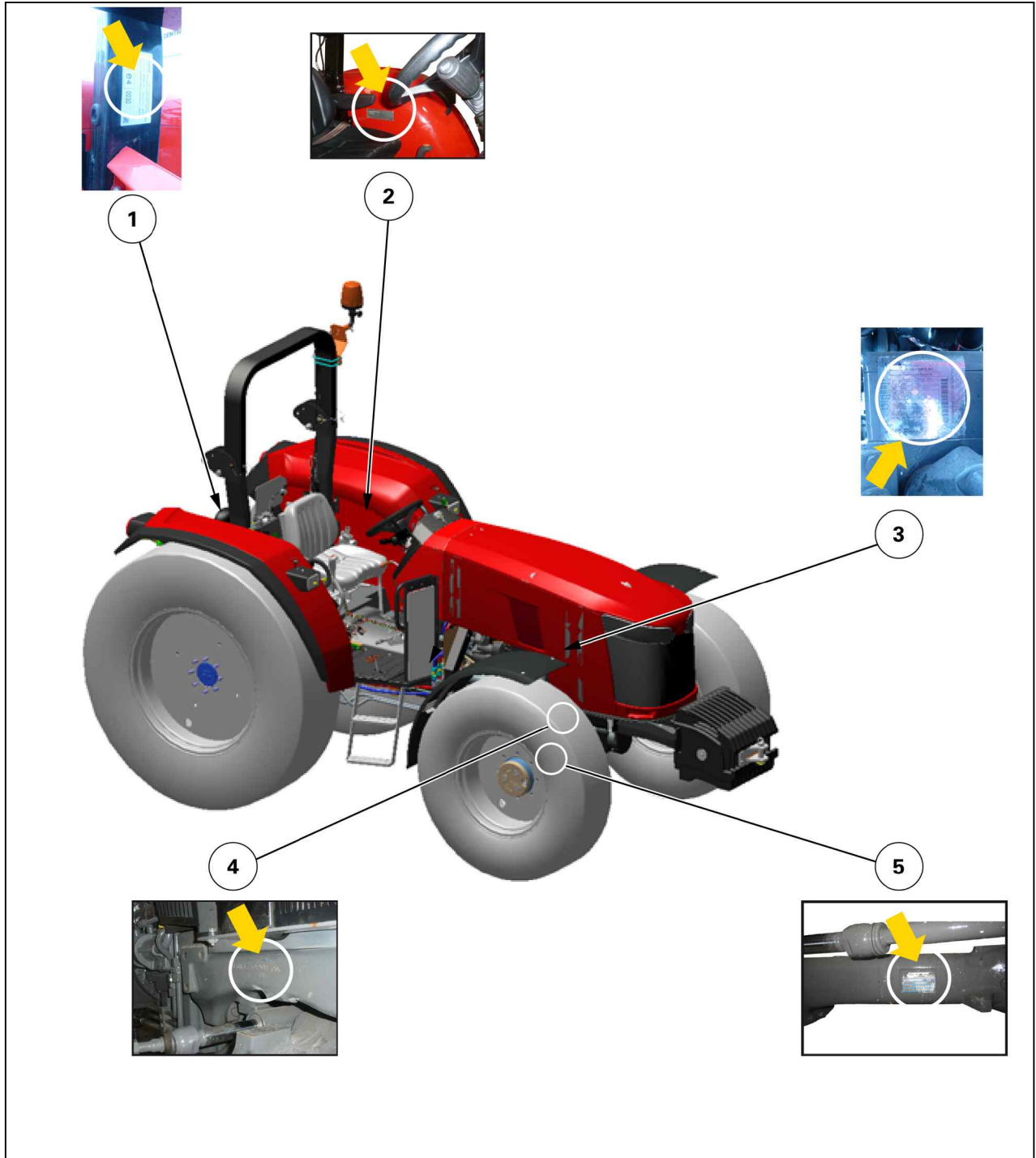


Fig. 1

- (1) ROPS serial number
- (2) Name plate
- (3) Engine serial number

- (4) Chassis serial number
- (5) Front axle serial number

1.2 Tractor identification

1.2.1 Your tractor identification details

Model: _____

Serial number: _____

Engine serial number: _____

Owner's name: _____

Street: _____

Postcode: _____

Town: _____

County: _____

Country: _____

Dealer code: _____

Tractor received from (tick one of the following):

- Factory Other dealer (transfer)

Notes: _____

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2.1 Introduction

2.1.1 Introduction - Safety instructions

Operator's Manual

IMPORTANT: *This manual must always be kept with the tractor. For extra copies, contact your Massey Ferguson dealer.*

NOTE: *This manual is for all users of Massey Ferguson tractors. The availability of the attachments indicated, on the basic tractor or as accessories, may vary according to the region in which the tractor is used. To find out which attachments are available in a region, contact a Massey Ferguson dealer.*

This manual enables the owner and the operator to operate the tractor appropriately under normal conditions of use. Providing they follow the instructions carefully, the tractor will give many years of service in the Massey Ferguson tradition.

During commissioning of the equipment by the Massey Ferguson dealer on the user's premises, the user must ensure that the operating and servicing instructions are properly understood. If the user has any doubt regarding the operation or servicing of the tractor, the Massey Ferguson dealer should always be contacted. It is essential that these instructions are understood and followed.

This manual covers all operating and safety instructions relevant to the Massey Ferguson tractor. For implements and accessories that may be installed at the time of the tractor's delivery or later, the user must refer to the Operator's Manuals relating to these implements and accessories.

This chapter supplements any safety instructions given in other chapters of this manual. It lists safety-related situations that may be encountered during the normal operating and servicing of the tractor with the purpose of enabling the user to work in complete safety.

Depending on the implements and accessories used, and the working conditions on-site or in the servicing area, additional precautions should be followed. Massey Ferguson cannot exercise direct control over the commissioning, operation, inspection, lubrication or servicing of the tractor. Consequently, Massey Ferguson cannot be held responsible if the user fails to take appropriate safety precautions for the implements and accessories used, or for the working conditions on-site or in the servicing area.



WARNING:

It is your responsibility to read and understand the instructions that appear in this chapter before using the tractor. They must be followed by the user.

Servicing, spare parts, accessories and conditions of use

The user must perform daily servicing on the tractor and keep a logbook of operating hours.

Only genuine Massey Ferguson replacement parts should be used when the need arises. Massey Ferguson dealers supply these genuine parts. Contact your dealer if you require any advice on their installation and use. Massey Ferguson cannot be held responsible if the owner uses parts other than the genuine parts sold by Massey Ferguson dealers. Similarly, only accessories specifically adapted to the tractor should be used.

This tractor is designed for normal farming activities only. Use of the tractor for any other activity, particularly forestry work, is considered to be contrary to normal use of the tractor.

If the tractor is to be used in abnormal conditions that could cause damage to it, such as in deep water or in paddy fields, consult a Massey Ferguson dealer to obtain special instructions.

IMPORTANT: *Massey Ferguson under no circumstances covers damage caused by the failure to observe the conditions of use, servicing and repair for its tractors. There is thus no justification for a warranty claim if the user fails to observe the recommendations for use, servicing and repair in this manual.*

IMPORTANT: *Massey Ferguson accepts no responsibility in the event of damage to equipment or personal injury resulting from the failure to observe the conditions of use, servicing and repair for its tractors.*

Always consult a Massey Ferguson dealer:

- For any advice regarding the conditions of use, servicing and repair for the tractor
- If there is any doubt regarding the safety instructions to be observed when using the tractor
- For any adjustments that may be necessary
- To order genuine spare parts
- In the event of after-sales problems
- If you have any questions relating to the tractor, genuine parts or implements and accessories that can be adapted for the tractor.

2.2 Safety – Symbols and terms

2.2.1 Safety – Symbols and terms

Signal



This safety alert symbol means **CAUTION! BE ALERT! YOUR SAFETY DEPENDS ON IT!**

The safety alert symbol identifies important safety notices on machines, safety signs, in instruction books or elsewhere. When you see this symbol, be alert to the risk of injury or death. Follow the instructions in the safety notice.

SAFETY is paramount! Why?

- ACCIDENTS DISABLE AND KILL
- ACCIDENTS ARE COSTLY
- ACCIDENTS CAN BE AVOIDED

Terms

The terms **DANGER**, **WARNING** and **CAUTION** are used with the safety alert symbol. It is essential to learn how to recognize these safety messages and to follow the recommended safety measures and instructions.



DANGER:

indicates an imminently hazardous situation which, if not avoided, will result in DEATH or VERY SERIOUS INJURY.



WARNING:

indicates a potentially hazardous situation which, if not avoided, could result in DEATH or SERIOUS INJURY.



CAUTION:

indicates a potentially hazardous situation which, if not avoided, may result in MINOR or MODERATE INJURY.

The terms **IMPORTANT** and **NOTE** are not directly related to personal safety, but are used to provide additional information and advice on the operation or maintenance of equipment.

IMPORTANT: *identifies specific instructions or procedures which, if not strictly applied, could damage or destroy the tractor, its equipment or the surrounding area.*

NOTE: *identifies points of particular interest for the most effective and suitable operation or repair.*

2.3 Safety decals and instructions

2.3.1 Checking and replacing the safety decals and instructions



WARNING:

Never remove or obscure the safety decals and instructions.

Replace any safety decals and instructions that are illegible or missing. Replacement decals are available from the dealer in the event of loss or damage. If a second-hand tractor has been purchased, check that all safety and instruction decals are correct, legible and in the correct location: To do this, refer to the section on the presentation and location of decals.

2.3.2 Presentation and location of the safety decals and instructions

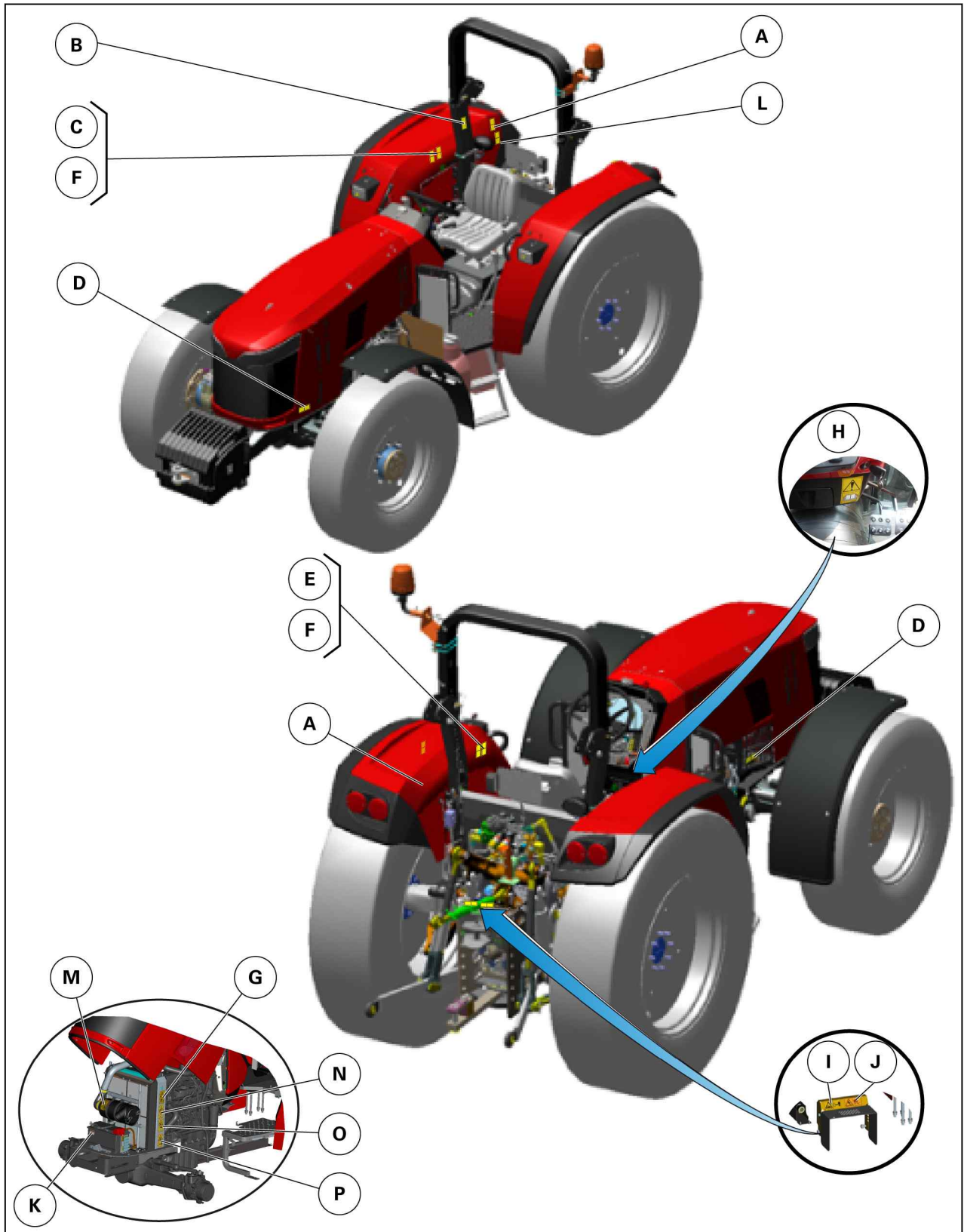


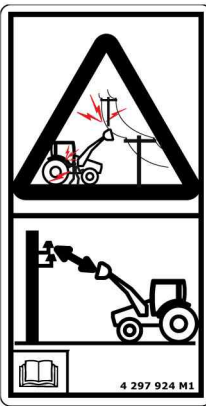
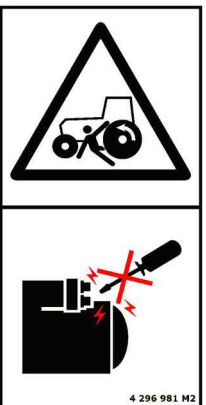
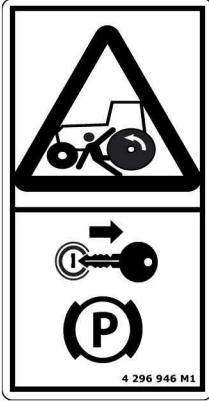


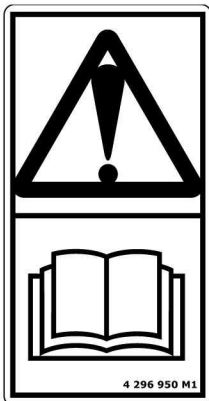
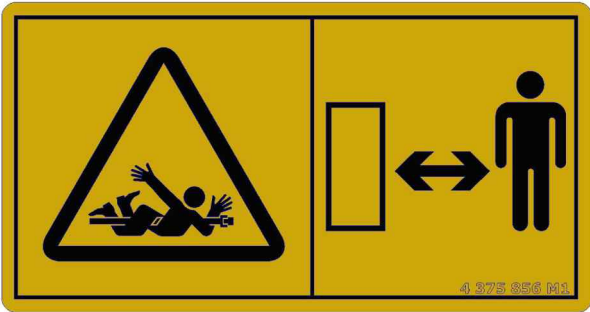

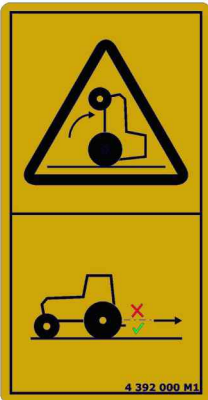
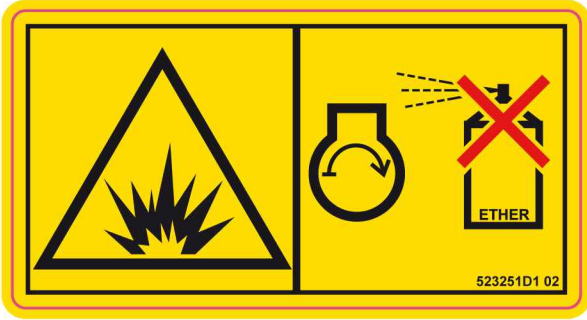
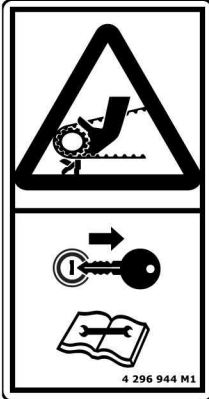
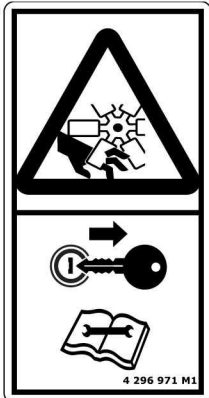



Fig. 1

	<ul style="list-style-type: none"> • 4392020M1 ((A)) • WARNING: Crushing hazard between tractor and implement. <p>Stand outside of tractor tire when using external controls for 3-point linkage.</p> <p>Do not stand between tractor and implement.</p>
	<ul style="list-style-type: none"> • 4296960M1 ((B)) • WARNING: Falling or crushing hazard if the tractor overturns <p>Keep seat belt fastened snugly when operating, do not jump if tractor starts to tip.</p>
	<ul style="list-style-type: none"> • 4297924M1 ((C)) • DANGER: Electrocution hazard <p>Tractors fitted with a front loader: Exercise extreme caution to avoid coming into contact with power lines.</p>
	<ul style="list-style-type: none"> • 4296981M2 ((D)) • DANGER: Runaway machine and runover hazards <p>Only start the engine when seated in the seat with the PTO disengaged and the transmission in the neutral position.</p> <p>DO NOT short across starter terminals to start engine.</p>

 <p>4 296 946 M1</p>	<ul style="list-style-type: none"> • 4296946M1 ((E)) • WARNING: Runaway machine and runover hazards <p>Switch off the ignition, remove the ignition key and engage the ParkLock before leaving the tractor.</p>
 <p>4 296 962 M1</p>	<ul style="list-style-type: none"> • 4296962M1 ((F)) • DANGER: Falling and crushing hazard. <p>Do not sit on the tractor fenders.</p>
 <p>4 375 885 M1</p>	<ul style="list-style-type: none"> • 4375885M1 ((G)) • WARNING: Risk of burning <p>Keep away from hot engine components when engine has been running. Shut off engine, remove key and wait for system to cool before performing maintenance or repair work.</p>
 <p>4 296 950 M1</p>	<ul style="list-style-type: none"> • 4296950M1 ((H) see Fig. 1) • WARNING: <p>To avoid personal injury, read the Operator's Manual for safety information and operating instructions before operating the tractor.</p>

	<ul style="list-style-type: none"> • 4375856M1 ((I)) • DANGER: Entanglement hazard <p>PTO shaft. Stand clear of rotating shafts. Keep all driveline, tractor and equipment guards in place during operation.</p>
	<ul style="list-style-type: none"> • 4297148M1 ((J)) • WARNING: Falling hazard <p>Do not step on PTO shield.</p>
	<p>((K)) Not used</p>
	<ul style="list-style-type: none"> • 4392000M1 ((L)) • DANGER: Rear overturn hazard, which may result in personal injury or death <p>Pull only from approved drawbar or bottom links of 3-point linkage at horizontal position or below. Never pull from above the rear axle centerline.</p>

	<ul style="list-style-type: none"> • 523551D1 ((M)) • WARNING: Explosion hazard. Never use starter fluid or aerosol sprays.
	<ul style="list-style-type: none"> • 4296944M1 ((N)) • WARNING: Entanglement hazard in belt drives Keep hands clear of rotating parts and belts while engine is running. Switch off the ignition and remove the key before working on the tractor.
	<ul style="list-style-type: none"> • 4296971M1 ((O)) • WARNING: Shearing hazard – engine fan. Keep your hands away from the fan and the belts when the engine is running. Shut off engine and remove key before performing maintenance or repair work.
	<ul style="list-style-type: none"> • 4296967M1 ((P)) • WARNING: Burn hazard – hot surfaces. Keep away from hot engine components when engine has been running. Shut off engine, remove key and wait for system to cool before performing maintenance or repair work.

2.4 General safety instructions

2.4.1 Awareness of the safety instructions and symbols

The operator must observe the safety instructions in order to ensure his/her own safety and the safety of other persons. Before using the tractor, familiarize yourself with:

- The instructions in this manual
- All of the safety decals and instructions on the tractor
- All the usual protective measures that should be taken when working



WARNING:

In some of the illustrations in this manual, the safety panels and guards are removed for reasons of clarity. Never use the tractor if these parts are not in place. If some of these parts have been removed for repair purposes, they must be refitted before use.

2.4.2 Operator familiarity in the use of the tractor



WARNING:

The operator must not drink alcohol or take any medication that leads to a loss of concentration or coordination. If taking medication, whether prescribed or not, always seek medical advice with regard to your ability to operate machinery safely.

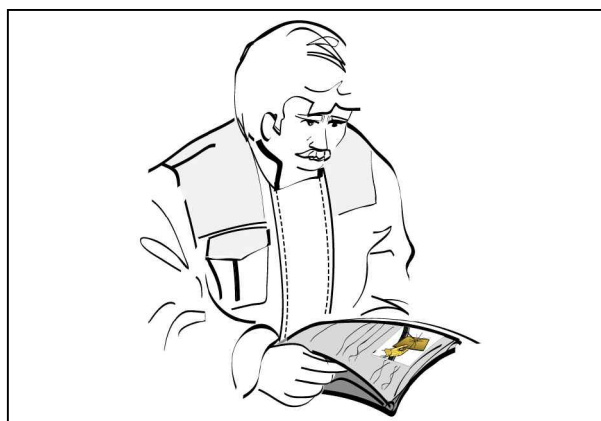


Fig. 2

- Conditions for use of the tractor:
 - to be familiar with operating an agricultural tractor
 - to be trained in the operation of the tractor
 - to have read and understood this entire manual. Always consult the dealer if there is any doubt or lack of understanding
 - find out about the rules and safety regulations applicable to the work you are doing. Some regulations specify that no one under the age of 16 may operate power machinery, for example. This includes tractors. It is your responsibility to know what these regulations are and to observe them in the operating area or situation. These rules include, but are not limited to, the safety instructions relating to the correct operation of the tractor as described in this manual.
- Do not allow children or unqualified persons to operate the tractor.
- Do not allow children to use the instructor seat.
- The instructor seat is only intended for short periods of use.



WARNING:

In poor conditions, slow down and be extra careful, and engage 4-wheel drive if fitted.

It is important to have good knowledge of the operation of the tractor as well as all of its accessories and attached implements.

Remember that rain, snow, ice, loose gravel or soft ground can change the performance of the tractor.

2.4.3 Filling the fuel tank



WARNING:

- Always switch off the engine before filling up.
- Do not smoke while refueling the tractor. Keep away from naked flames .
- Proceed with care to prevent any splashes.

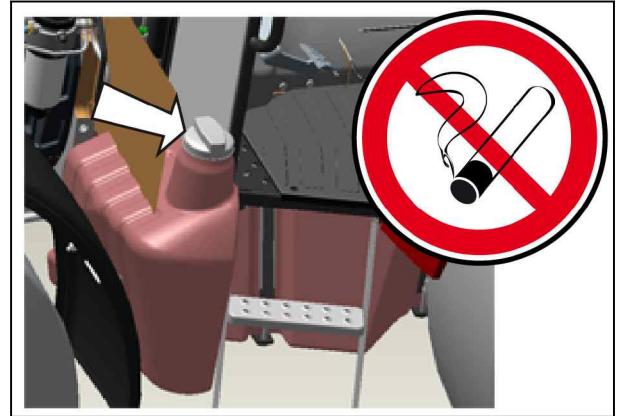


Fig. 3

2.4.4 Mounting and dismounting the operator's seat

- Always use three-point contact with the tractor and face the tractor when mounting and dismounting the operator's seat. (Three-point contact means that both hands and one foot or one hand and both feet are in contact with the tractor at all times when getting on and off).
- Clean your shoes and wipe your hands before getting in the tractor.
- Use handrails, grab handles, ladders or steps (if fitted) when getting on and off.
- Do not use the control levers as a handhold.
- Do not step on pedals when getting in and out.
- Never attempt to mount or dismount a moving tractor.
- Never jump off a tractor when it is running except in an emergency.

2.4.5 Mandatory procedure before dismounting the tractor

Before getting out of the operator's seat, observe this procedure:

Procedure

1. Immobilize the tractor by applying the parking brake.
2. Disengage the front and rear PTO.
3. Lower the implements to the ground.
4. Stop the engine (see the Operation section, Engine: Stopping the engine). Make sure that the engine is not running at idling speed and that it has stopped.
5. Remove the ignition key.

2.5 Special instructions

2.5.1 Specific recommendations for agricultural and forestry tractors

Hot surfaces

Be careful of surfaces which may be hot, in particular engine and hydraulics components, during operation and services.

FOPS (Falling Object Protection Structure)

- Alternative 1 (no FOPS available): Protection against falling objects is not provided, unless clearly specified otherwise.
- Alternative 2 (optional FOPS fitted): Protection against falling objects is provided under OECD-code 10 (Energy level 1365 J). If a higher protection level is necessary, additional safety equipment must be installed on the tractor (no original equipment available).

OPS (Operator Protection Structure)

- Alternative 1 (no OPS available): Protection against penetrating objects is not provided, unless clearly specified otherwise.
- Alternative 2 (optional OPS fitted): Protection against penetrating objects is provided under ISO 8084 (Machinery for forestry). Before operating, check if protection is adapted to your work conditions.

Dangerous substances for tractors with ROPS

NOTE:

A mark indicating the ROPS' level of protection against hazardous substances is located on the ROPS.

IMPORTANT:

Always wear personal protective equipment when handling the filters.

- Tractor without cab: Protection against hazardous substances (agricultural chemicals etc.) in the form of dust, aerosols and fumes is not provided. These tractors are not intended for spraying pesticides without additional protection. Personal protective equipment must be used according to the chemical manufacturer's recommendations.

Dangerous substances for tractors with a cab

NOTE:

A mark indicating the cab's level of protection against hazardous substances is located on the front left-hand pillar inside the cab. For platform tractors, this mark is displayed on the arch.

IMPORTANT:

Always wear personal protective equipment when handling the filters.

- Alternative 1 (less cab or cab under category 1): Protection against hazardous substances (agricultural chemicals etc.) in the form of dust, aerosols and fumes is not provided. Tractors equipped with a cab are not intended for spraying pesticides without additional protection. Personal protective equipment must be used according to the chemical manufacturer's recommendations.

- Alternative 2 (cab under category 2): Protection against hazardous substances (agricultural chemicals etc.) in the form of aerosols and fumes is not provided. Tractors equipped with a cab are not intended for spraying pesticides without additional protection. Personal protective equipment must be used according to the chemical manufacturer's recommendations.

Protection against dust (category 2 of standard EN15695-1:2009) is provided under the following conditions:

- all roof hatch, cab doors and cab windows are closed
 - cab ventilation is running
 - air filter is clean and is serviced under maintenance interval (refer to service guide). When replacing the filter, only a filter certified for at least category 2 cabs is permitted. Activated carbon filters do not improve the cab's level of protection. Always refer to the user instructions provided with the filter.
- Alternative 3 (cab under category 4): The cab is equipped with protection against hazardous substances (agricultural chemicals etc.) in the form of dust, aerosols and fumes. For pesticide spraying, tractors equipped with a cab must also have a specially designed filter for category 4 cabs.

This protection (category 4 of standard EN 15695-1:2009) is provided under the following conditions:

- all roof hatch, cab doors and cab windows are closed
- cab ventilation is running
- air filter is clean and is serviced under maintenance interval (refer to service guide).

Given the risk associated with contaminants entering the cab when opening the door to enter or exit the vehicle, this protection is designed to supplement, but not replace, the use of personal protective equipment when working in an environment with aerosols and/or fumes, such as pesticides. Personal protective equipment must be used according to the chemical manufacturer's recommendations.

When replacing the filter, only a filter certified for at least category 4 cabs is permitted.

Always refer to the user instructions provided with the filter. Once spraying operations are complete, return the special filter to its case and replace it with a standard anti-dust filter.

2.6 Special safety instructions for preparing the tractor for use

2.6.1 Protective clothing

Wear all the protective clothing and equipment with which you are provided or which is appropriate for certain working conditions.

For example, you may need:

- A safety helmet
- Safety glasses
- A protective mask
- Ear protection
- A respirator or filter mask
- Inclement weather clothing
- Reflective clothing
- Gloves suitable for the work to be carried out
- Safety footwear



Fig. 4



DANGER:

Do not wear loose clothing, jewelry or other items and tie up long hair which could catch on controls or other parts of the tractor.

2.6.2 Safety devices and items

Ensure that all safety devices and items are in good condition and are installed in accordance with the specifications.



WARNING:

The location of all these safety devices and items must be known and their use mastered. Never take off, remove or disconnect these safety devices and items.

Standard safety devices and items according to country regulations

- ROPS (Roll Over Protective Structure)
- Seat belt
- Power take-off guard
- SMV warning triangle
- Signaling lights
- Safety signs
- Fire extinguisher
- First aid kit



WARNING:

Also make sure you know the emergency numbers.



Fig. 5

Additional devices and items

Depending on the work to be carried out, other safety devices and items may be required; for example, guards or additional lights and signs.

2.6.3 Checking the tractor

Check the tractor and ensure that all systems are in good operational condition before beginning the working day. Pay particular attention to the points mentioned below.

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