

**OPERATOR'S MANUAL
20C 25C
06381058 Edition 02 (English)**

MANUFACTURER



JOHN DEERE

JOHN DEERE IBERICA, S.A.
GETAFE - MADRID - SPAIN

Internet: www.deere.com

MODELS AND VERSIONS



20C
25C

TABLE OF CONTENTS

MANUFACTURER

MODELS AND VERSIONS	2
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GENERAL INFORMATION

INTRODUCTION	5
MACHINE IDENTIFICATION	6
Identification criteria	6
Decals	6
Punch marks on chassis	7
Metal plate	7
IDENTIFICATION OF THE COMPONENTS	8
Engine	8
Safety frame	8
Towing attachments (optional)	8
AFTER SALES	9
Warranty	9
Assistance	9
Spares	9
HOW TO READ THE MANUAL	10
Standard symbols	11

SAFETY

SAFETY REGULATIONS	12
SAFETY OPERATIONS	14
Training	14
Preparation	14
Operation	15
Maintenance and Storage	17
Parking Safely	17
Avoid Tipping	18
Keep Riders Off	19
Towing Loads Safely	19
Stay Clear of Rotating	20
Checking Wheel Hardware	20
Wear Appropriate Clothing	20
Practice Safe Maintenance	21
Avoid High Pressure Fluids	22
Prevent Fires	23
Tire Safety	23
Handling Fuel Safely	24
Handling Waste Product and Chemicals	25
SAFETY DEVICES	26
Safety frame	26
Safety belts (optional)	26
SAFETY DECALS	27

NOISE	28
Table of maximum noise levels	28
Noise level information	28
Recommendations for the user	28
ECOLOGY	29

OPERATING INSTRUCTIONS

CONTROLS AND INSTRUMENTS	30
Dashboard	30
Multifunction instrument	31
Controls in front part	33
Controls on rh side	33
Controls on lh side	34
Seat controls	34
STARTING AND STOPPING THE ENGINE	35
How to start the engine	35
Before starting the engine	35
Ignition switch	35
How to stop the engine	36
HOW TO START AND STOP THE MACHINE	37
Safety frame	37
How to start the machine	38
How to stop the machine	38
Light switch	38
Horn	38
Turn indicator	39
Lights	39
TRANSMISSION	40
Main clutch	40
Gearbox	40
Gearshift lever	41
Reverse shuttle lever	41
Final drive lever	42
Hand throttle	42
Rear diff lock	43
BRAKING SYSTEM	44
Main brake	44
Parking brake	45
POWER TAKE-OFF	46
Rear power take-off (PTO)	46
Independent power take-off	47
REAR POWER LIFT	48
Up-down	48
Position control	49
Floating mode	49
TOWING ATTACHMENTS	50
Drawbar	51
Front tow hook	51
"CLASS B CUNA" tow hook (optional)	52
Towing the machine	53
Seven-pin trailer socket	53

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BALLAST	54
Ballast (optional)	54
Front ballast (optional)	54
Wheel ballasting by filling the tyres with fluid	55
WHEELS	56
Tyres	56

MAINTENANCE

Routine maintenance chart	58
ENGINE UNIT	63
How to open the bonnet	63
Engine	63
Fuel tank	63
Dry air filter	64
Cooling system	65
TRANSMISSION UNIT	67
Gearbox housing, rear differential, power lift	67
Front differential	68
Clutch	69
Steering	70
Brakes	70
ELECTRICAL SYSTEM	71
Battery	71
Headlights	72
Rear lights	73
Fuses	74
Engine air filter clogging sensor	76
BODYWORK	77

TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHTS	78
Table of Machine Dimensions and Weights	78
Engine	78
Maximum load per axle	78
SPEEDS	79
Speed Chart	79
RECOMMENDED LUBRICANTS AND FLUIDS	80
Original lubricants	80
Original protective fluids	80

DECLARATION OF CONFORMITY

GENERAL INFORMATION



ORIGINAL INSTRUCTIONS

INTRODUCTION

This manual contains a description of how the machine operates and instructions about how to correctly use the machine and perform the main routine and supplementary servicing operations.

This manual is divided into chapters for practical consultation.

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

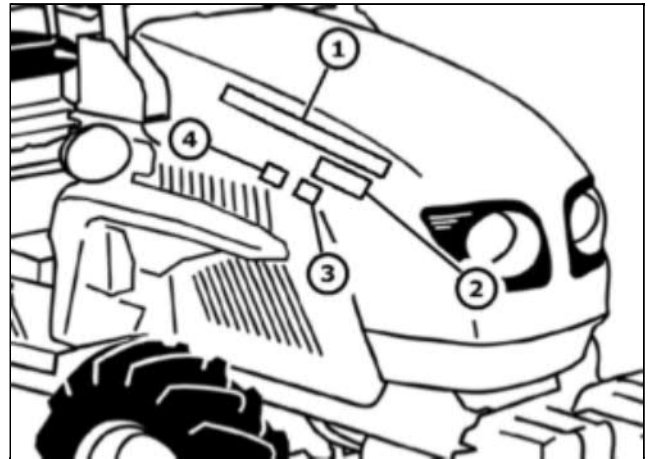
The confidence you have shown in our company by choosing equipment carrying our trademark will be amply repaid by the excellent service it will give you over the years.

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

MACHINE IDENTIFICATION



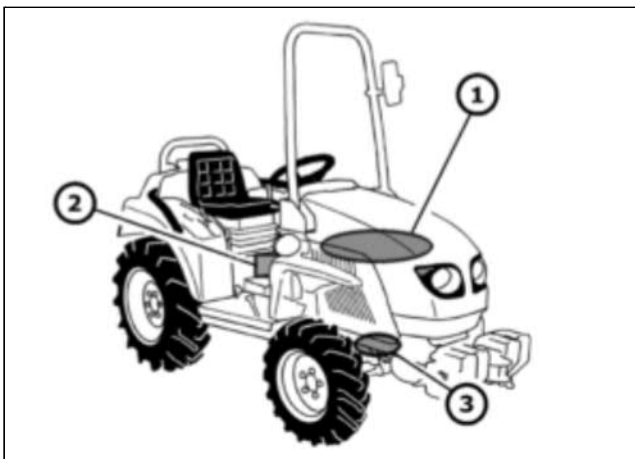
Decals



The decals affixed to the bonnet indicate:

- ① Brand.
- ② Series.
- ③ Model
- ④ Version.

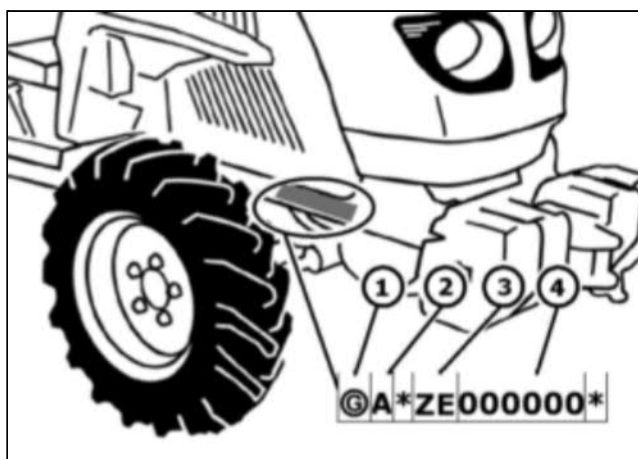
Identification criteria



The machine is identified in three different ways:

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

Punch marks on chassis



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

Metal plate

41043		JOHN DEERE		CE
Den. com:	1	Serie:	2	
Type:	3	Var/Vers:	4	ABS: 5
Nr. HOMOLOGACION:	6			
EEC number:				
Numero identificacion:	7			
Identification number:				
Peso total admisible:	8	Kg		
Allowable total weight:				
Carga admisible sobre eje anterior:	9	Kg		
Allowable load on front axle:				
Carga admisible sobre eje posterior:	10	Kg		
Allowable load on rear axle:				
Peso remolcable admisible:	EEC			
Allowable towing weight:	11	Kg		
-Sin freno: -Unbraked:				
-Con freno -Indipendent independiente: braking:	12	Kg		
-Con freno -Inertial de inercia: braking:	13	Kg		
-Con freno -Assisted asistido: braking:	14	Kg		
JOHN DEERE IBERICA S.A.				
-MADRID- ESPANA				

The metal plate gives the following information:

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

IDENTIFICATION OF THE COMPONENTS

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

Engine

Metal data plate and punched code number.



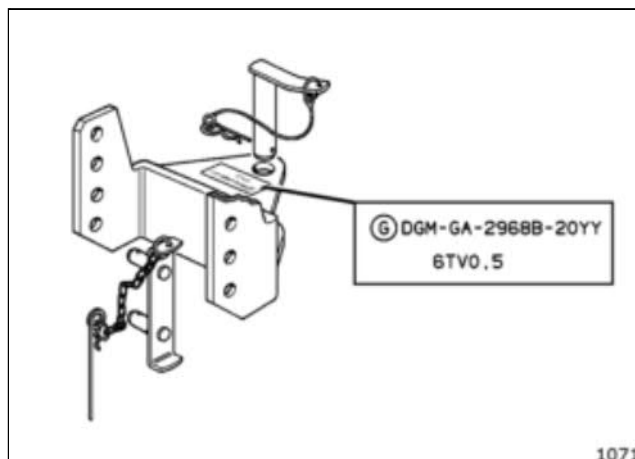
See engine's operation and maintenance manual.

Safety frame



- Decal with the Type of safety frame.

Towing attachments (optional)



Code punched on device:

- Make
- Type of device

AFTER SALES

Warranty

Engine: conditions and terms established by the manufacturer

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

Assistance

Contact the AUTHORIZED sales network

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

Use of Genuine Spare Parts and correct maintenance will preserve the qualities of the machine over time and will entitle you to the WARRANTY that covers the product throughout the established period.

Spares

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

HOW TO READ THE MANUAL



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



DANGER

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



WARNING

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



IMPORTANT

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

This manual is your operation and maintenance guide.

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

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

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

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



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

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



Warning



Environment



Recycling



Legislation



Information



Instructions



Check



Clean with compressed



Adjustment



Lubrication



Greasing



Fluid changes

Standard symbols

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

	Hydraulic circuit filter		Driving beam		Oil
	Dipped beam		Transmission		Field light
	Differential lock		Parking light		Power take-off
	Side lights.		Power take-off rotation		Hazard lights
	Clutch		Indicator light		Parking brake
	Turn indicator		Four-wheel drive		Trailer turn indicator
	Guard lowered		Horn.		Forward direction
	Battery charger		Low speeds		Safety belts
	Work hours		Normal speeds		Idle
	Fuel level		Fast speeds		Clockwise rotation
	Fuel filter		Idle		Counter-clockwise rotation
	Engine preheating		Direction reverser		Air ventilation
	Engine air filter		Rotational accelerator		Air heating
	Engine oil pressure		Linear accelerator		Air conditioning
	Engine oil filter		Power lift		Windscreen wiper
	Engine temperature		Power lift - Up		Windscreen wiper and window washer
	Air valve		Power lift - Down		Rear window wiper
	Hydraulic circuit		Power lift – Floating mode		Rear window wiper and window washer

SAFETY

SAFETY REGULATIONS

 **DANGER**
There is no substitute for prudence to make your work safer and to prevent accidents.
The following recommendations are important for all users of our machines:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 **WARNING**
Whenever the PTO is in use, the drive shaft must be covered by the special guard.

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

 **IMPORTANT**
Follow the traffic code when driving on the roads.

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

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

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

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

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

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

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

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

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

SAFETY OPERATIONS

Training

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

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

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

The main reasons for loss of control are:

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

Preparation

- Check the machine with care before starting up each time
- The decals affixed to the machine provide important information: it is in the interests of your safety to comply with these indications.
- Make sure that the safety decals are in a good condition. If the decals are damaged or illegible, they must be replaced with other originals obtained from the manufacturer and affixed in the positions indicated in the operation and maintenance manual.
- Arbitrary modifications to this machine will relieve the manufacturer from all liability for resulting damage or injuries to the operators, to third parties and to things.
- The manufacturer cannot make provisions for every reasonably foreseeable improper use able to lead to a potential danger.
- Always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used.
- **WARNING-Fuel is highly flammable.**
- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only and do not smoke while refueling.
To avoid the risk of the machine catching fire, periodically check the fuel pipe and replace it if it appears to be damaged to an extent that could impair its tightness.
- Refuel before starting the engine. Never remove the plug of the fuel tank or add fuel while the engine is running or hot.
- If fuel is spilled, do not attempt to start

the engine but move the machine away from the place of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

- Securely tighten the plugs on the tank and containers.
- Replace faulty silencers.
- Clean all foreign materials from the machine (dirt, tools, objects in general) that could impair the way it operates or injure the operator.

Operation

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

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

- do not stop or start suddenly when driving on slopes;
- engage the clutch slowly. Always keep the gear engaged, especially when traveling downhill;
- maintain a low speed on slopes and around tight turns;
- stay alert for humps and hollows and other hidden hazards;
- take the greatest care when working across the face of a slope.

Take care when pulling loads or using heavy implements:

- use only approved drawbar hitch points;
- limit loads to those you can safely control;
- do not turn sharply.
- take care when reversing;
- use counterweights or wheel ballast to increase the stability.
- Watch out for traffic when crossing or driving alongside roads.
- Never unload material in the direction of bystanders or allow anyone near the

machine while it is operating.

- Never operate the machine with defective guards or without the protective safety devices in their correct positions.
- Do not change the engine governor settings or over-rev the engine. Operating the engine at an excessive speed can increase the hazard of personal injury.

Before leaving the operator's position:

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

Disengage the drive to the implements, stop the engine, disconnect the spark plug wires and remove the ignition key:

- before clearing blockages;
- before checking, cleaning, or working on the machine;
- after striking a foreign object. Inspect the machine for damage and make repairs before restarting and using implements;
- if the machine starts to vibrate abnormally (check immediately).
- Disengage the drive to implements when transporting or not in use.

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

- before refueling;
- before making height adjustment unless the adjustment can be made from the operator's position.
- Reduce the throttle setting when slowing and, if the engine is equipped with a shut-off valve, turn the fuel off at the end of the operations.
- Read, understand and follow all the instructions in the manual and on the

machine before starting.

- Inspect the machine before each job. For safety reasons, replace or repair damaged, very worn or missing parts. Make the necessary adjustments before you start work.
- Make sure that all drives are in neutral and that the parking brake is engaged before starting the engine. Only start the engine from the operator's position.
- Check brake action before you operate. Adjust or service the brakes as necessary.
- Stop machine if anyone enters the area in which you are working.
- Never leave the machine unattended when it is running.
- Take care when approaching blind corners, shrubs, trees and other objects that may impair the visibility.
- Only use the accessories and implements recommended by the manufacturer of the machine. Keep the safety decals visible when accessories or implements are fitted. Make sure that you have fully read the Instruction Manual of that accessory and/or of that implement and comply with the relative safety instructions.
- Do not use the machine if you are under the influence of medicines, alcohol or drugs.
- Before beginning to use the machine, check to make sure that the operator presence controls function correctly. Check the safety systems. Do not begin work unless they function correctly.
- Do not wear headphones to listen to music or the radio. Safe service and operation requires your full attention.

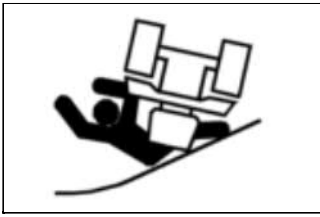
Maintenance and Storage

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

Parking Safely

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

Avoid Tipping



- Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or even death. All operations that take place on sloping ground require extra caution.
- Be aware that mechanical front wheel drive (MFWD) can improve access to dangerously sloping terrain, thereby increasing the possibility of overturning.
- Drive up and down hills, never across them.
- Watch out for holes, ruts, bumps, rocks or other hidden objects. Uneven terrain could cause the machine to overturn. Tall grass can hide obstacles.
- Take the utmost care on wet grass. Tires may lose their grip on slopes even though the brakes are functioning properly.
- Choose a low ground speed so you will not have to stop or shift gear on the slope.
- Always keep the gear engaged when going down slopes. Never coast downhill with the machine in neutral.
- Avoid starting, stopping or turning on slopes. If the tires lose their grip, disengage the PTO and proceed slowly, straight down the slope.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction as this could cause the machine to tip over.
- Do not use the machine near ravines, ditches, embankments or bodies of water. The machine could suddenly tip over if a wheel goes over the edge or the edge caves in. Allow for a safety area between the machine and any hazard.
- The risk of tipping over increases to a considerable extent if the tires have been regulated with a narrow track width and the machine is driven at high speed.
- Comply with the manufacturer's recommendations for wheel weights or counterweights, which can increase stability when work is carried out on slopes or when front or rear-mounted implements are used. Remove the weights when they are not required.
- Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or even death. All operations that take place on sloping ground require extra caution.



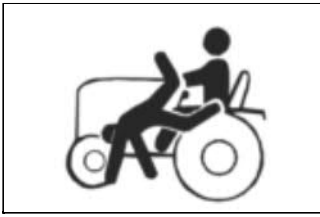
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Keep Riders Off



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

Towing Loads Safely

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

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