

# OPERATOR'S MANUAL

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**TX62**

**TX63**

**TX64 Plus**

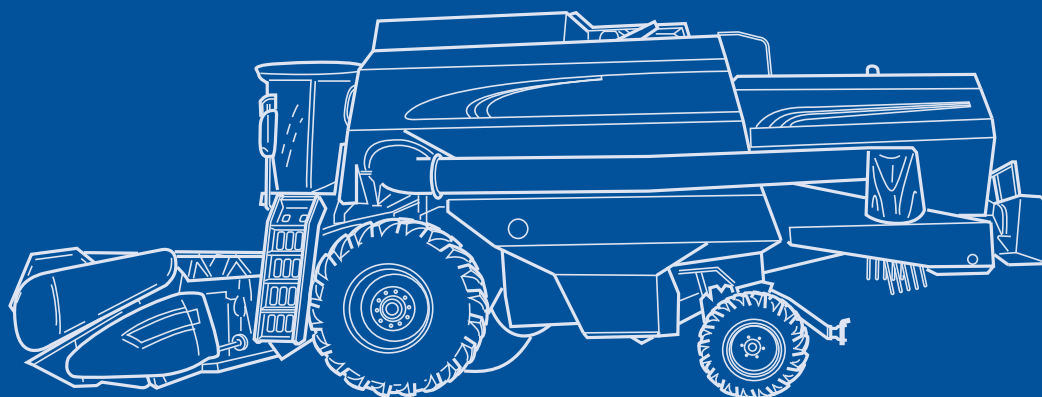
**TX65 Plus**

**TX66**

**TX67**

**TX68**

**TX68 Plus**



**Print No. 604.63.021.00**

3rd edition

English 09/98

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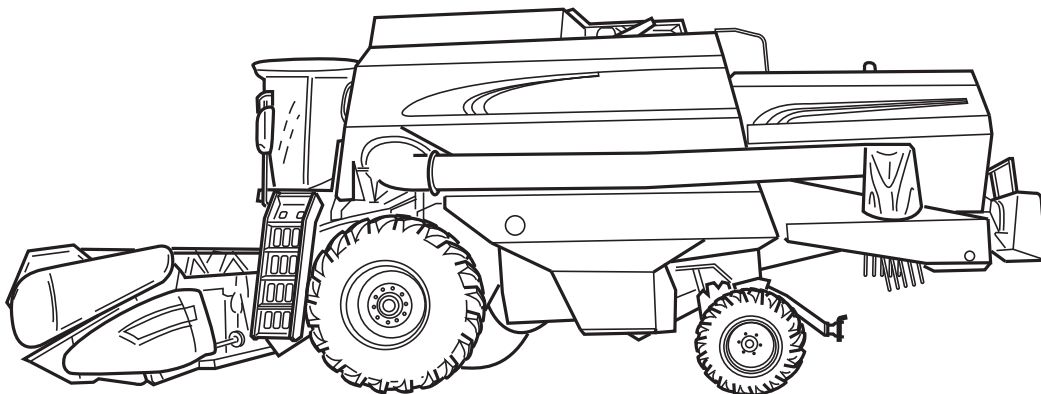
**TX65 Plus**

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**TX68**

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# **SECTION QUICK REFERENCE**

**1 - Introduction**

**2 - Operation**

**3 - Lubrication**

**4 - Field Operation**

**5 - Adjustments and Maintenance**

**6 - Troubleshooting**

**7 - Storage**

**8 - Accessories**

**9 - Specification**

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# SECTION 1 INTRODUCTION

## TO THE PURCHASER

### FOREWORD

This manual has been prepared to assist you in the correct procedure for operation, adjustment and maintenance of your new machine.

This machine has been designed and built to give maximum performance, economy and ease of operation under a wide variety of crops and conditions.

Prior to delivery, your machine was carefully inspected both at the factory and by your dealer to ensure that it reaches you in optimum condition.

To maintain this condition and ensure trouble-free operation it is important that routine services, as specified in this manual, are carried out at the recommended intervals.

You cannot operate or maintain your machine properly without reading this manual attentively. Keep it within reach.

Before attempting to drive or operate your machine, read this manual carefully (especially the chapter covering the Safety Precautions).

“Left” and “right” used throughout this manual are determined from the rear, facing in the direction of travel of the machine during operation.

If at any time you require advice concerning your machine, do not hesitate to contact your authorised dealer. He has factory-trained personnel, genuine service parts and the necessary equipment to carry out your service requirements.

### *IMPORTANT:*

- *This machine has been designed and built according to the European Directive EEC/89/392.  
Always use genuine New Holland Service Parts when servicing and repairing your machine and do not modify your machine without a written permission of the manufacturer. Failure to do so will void the responsibility of the manufacturer.*
- *An EC Declaration of Conformity is separately delivered with your machine. Store this EC Declaration into the storage space for your Operator's Manual (Refer to Section 2 - OPERATION).*
- *The maximum road speed of your combine is limited and sealed. Do not remove the seal.*
- *Check local road legislation before driving the combine on public roads.*
- *When operating interchangeable New Holland built equipment, ensure the equipment is CE approved.*
- *As this publication is distributed throughout our international network, the equipment illustrated, either as standard or as an accessory, may vary according to the country in which the equipment is to be used. Low cost configurations, as chosen by the customer, may deviate from the specifications given.*

- *Several figures in this manual show the safety guarding or the additional guards, legally required by certain countries, open or removed to illustrate better a particular feature or adjustment. **The machine must not be used in this condition.** For your own safety, **ensure that all guards are closed or replaced before operating the machine.***

### IMPROVEMENTS AND CHANGES

The Company is continually striving to improve its products, and therefore reserves the right to make improvements and changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

### ACCESSORIES AND OPTIONS

Your machine has been designed to operate in a wide variety of crops and conditions. Nevertheless additional equipment may, in certain cases, be required to improve the machine performance. A list of this additional equipment is given in Section 8 - ACCESSORIES in this manual.

### SERVICE PARTS AND ACCESSORIES

Genuine service parts and accessories have been specifically designed for your machine.

We would like to point out that “nongenuine” parts and accessories have not been examined and released by the Company. The installation and/or use of such products could thus have negative effects upon the design characteristics of your machine and thereby affect its safety. The Company is not liable for any damage caused by the use of “nongenuine” parts and accessories.

Rely on your authorised dealer to supply you with genuine service parts only. These parts are covered by our warranty and will give you the best performance.

When ordering service parts, always quote the model and serial number of your machine (refer to chapter headed “Product identification”).

### LUBRICANTS

Your dealer sells a selection of specially formulated lubricants based on own engineering specifications.

Recommended lubricants for your machine are listed on the inside rear cover of this manual.

### WARRANTY

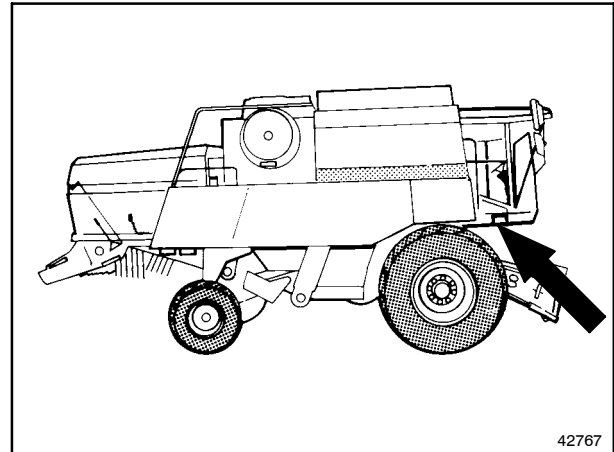
Your machine is warranted according to legal rights in your country and the contractual agreement with the selling dealer. No warranty shall, however, apply if the machine has not been used, adjusted and maintained according to the instructions given in the Operator's Manual.

## PRODUCT IDENTIFICATION

The serial numbers of the combine, engine and attachments can be found in the following locations:

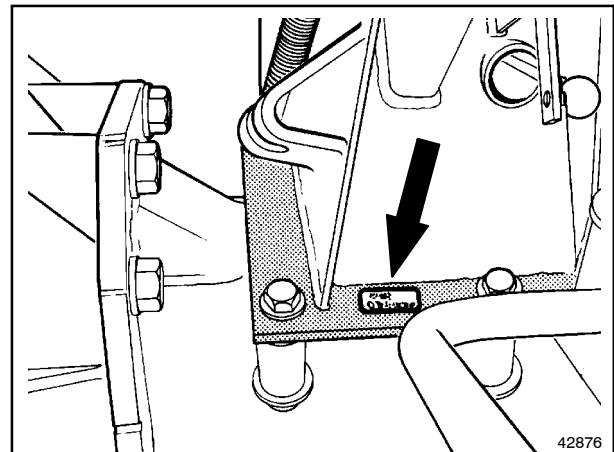
### BASE UNIT - Figures 1 and 2

On a plate positioned on the right-hand side of the operator's platform.



1

On a plate positioned on the right-hand side of the combine above the front axle.

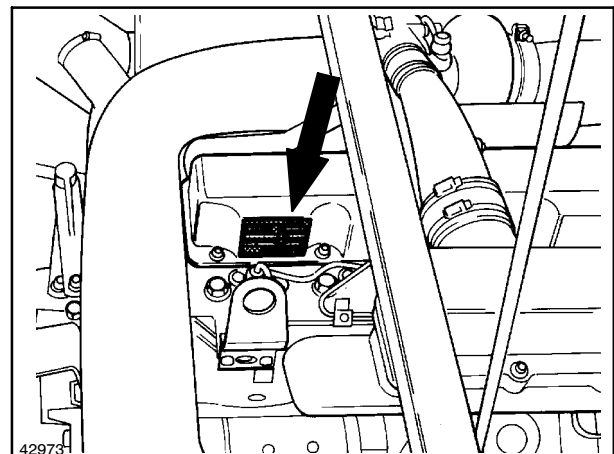


2

### ENGINE

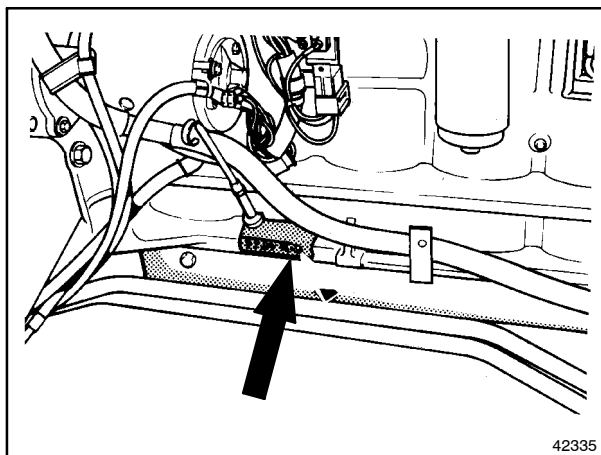
**Models TX62-63-64<sup>PLUS</sup>-65<sup>PLUS</sup>-66-67** -  
Figures 3 and 4

On a plate positioned on top of the rocker cover.



3

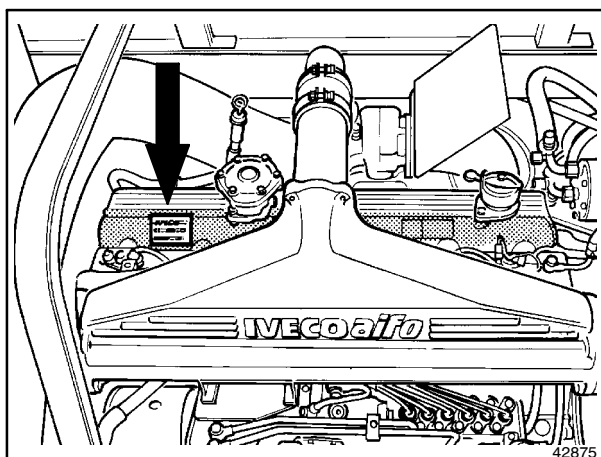
It is also stamped in the cylinder block.



4

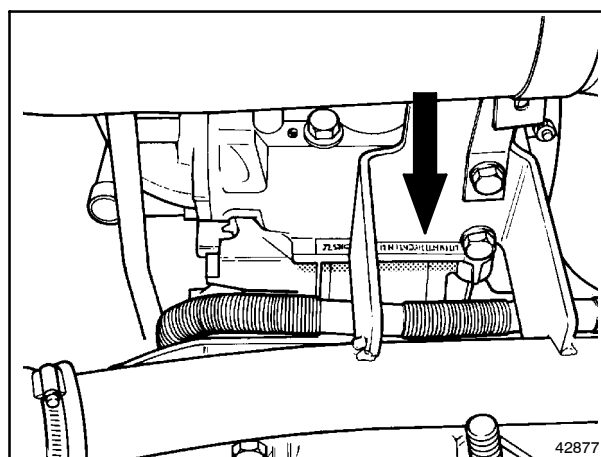
**Model TX68-68<sup>PLUS</sup>** - Figures 5 and 6

On a plate positioned on top of the rocker cover.



5

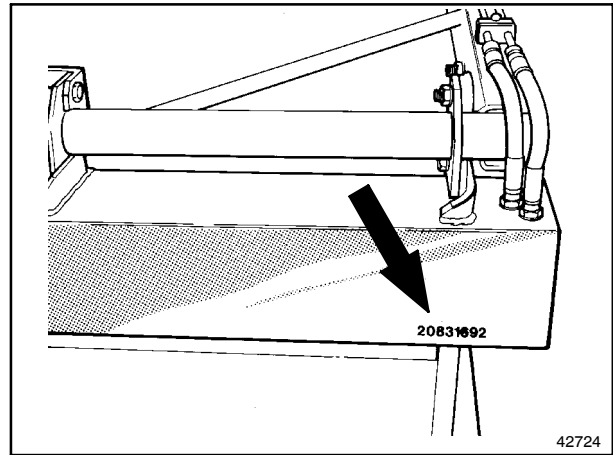
It is also stamped in the cylinder block.



6

**GRAIN HEADER - Figure 7**

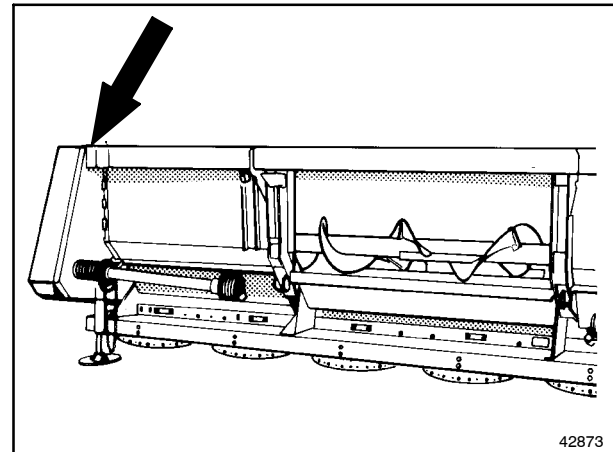
In the right-hand upper corner of the header.



7

**MAIZE HEADER - Figure 8**

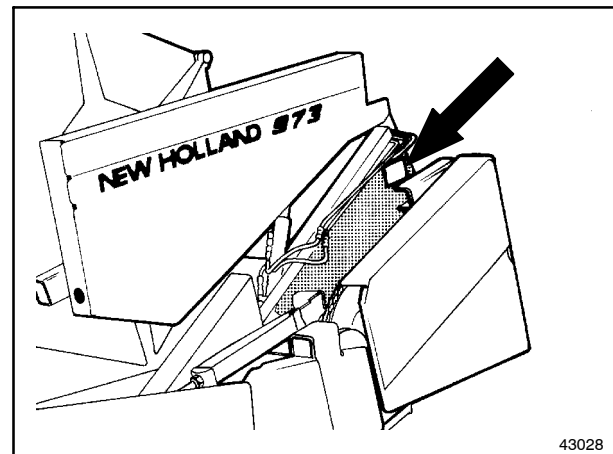
At the top of the left-hand corner.



8

**FLEX HEADER - Figure 9**

On the left rear corner of the main frame



9

**Record below the serial numbers of your machine for quick reference:**

Combine model .....  
 Combine serial n° .....  
 Engine serial n° .....  
 Grain header serial n° .....  
 Maize header serial n° .....  
 Flex header serial n° .....  
 Date machine first used .....  
 Dealer's telephone n° .....

**HEADER INFORMATION**

The model TX combines can be equipped with the following headers:

HEADERS	TX62	TX63	TX64 <sup>PLUS</sup>	TX65 <sup>PLUS</sup>	TX66	TX 67	TX68	TX68 <sup>PLUS</sup>
<b>Grain header</b>								
12 ft	x	x						
13 ft	x	x	x	x				
15 ft	x	x	x	x				
17 ft	x	x	x	x	x	x	x	x
20 ft	x	x	x	x	x	x	x	x
24 ft					x	x	x	x
30 ft					x	x	x	x
<b>Maize header (*)</b>								
5-row	x	x	x	x	x	x	x	x
6-row	x	x	x	x	x	x	x	x
6-row FU (**)	x	x	x	x	x	x	x	x
8 row FU (**)				x	x	x	x	x
<b>Flex header</b>								
15 ft	x	x	x	x				
19 ft	x	x	x	x	x		x	x

- (\*) Available with
- a) Knife stalk rolls or smooth stalk rolls
  - b) Row distances: 70 cm - 75 cm - 80 cm
  - c) Stalk chopper

(\*\*) Flip-up

## IMPORTANT ECOLOGICAL CONSIDERATIONS

Soil, air and water are vital factors of agriculture and of life in general. Where legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and the disposal of the products of a chemical and a petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and respect the relative legislation applicable in your country.
- Where no legislation exists, obtain information from suppliers of oils, fuels, antifreeze, cleaning agents, etc. for their effect on man and nature and for safe ways of storage, usage and disposal. Agricultural consultants will, in many cases, be able to help you as well.

### Helpful hints:

1. Avoid filling fuel tanks using jerrycans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.
2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which can be harmful to your health.
3. Use bio-degradable oils for chain lubrication where oils cannot be recuperated. In many countries rape seed oils or other agro-based lubricants have become available.
4. Modern oils contain additives. Do not burn contaminated fuels and/or waste oils in ordinary heating systems.
5. Avoid spillage when draining off used engine coolant mixtures, engine, gearbox and hydraulic

oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.

6. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.
7. Do not open the air-conditioning system yourself; it contains gases which should not be released into the air. Your dealer has a special extractor for this purpose and will have to do the recharging of the system anyway.
8. Repair any leaks or defects in the engine cooling or the hydraulic system immediately.
9. Do not increase the pressure in a pressurized circuit as this may lead to bursting of the components.
10. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, causing the loss of oils, coolant, etc.
11. Battery recycling
 

Batteries and electric accumulators contain various components which can damage the environment if they are not properly recycled after usage. New Holland strongly recommends that you return all used batteries (starting batteries and small "dry" batteries which may be used in electric or electronic systems) to your New Holland dealer who will ensure proper disposal or re-cycling. In certain countries this is a legal requirement.



## SAFETY

### Farm accidents can be prevented with your help

No accident prevention programme can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

To read of accident reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it.

It is said that "The best kind of safety device is a careful operator who with care and mature consideration can save more lives and limbs than any accident prevention programme which is not adhered to".

Further in this chapter you will find a list of the most important safety precautions.



#### CAUTION:

- This symbol is used throughout this manual whenever your personal safety is involved.

**TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS AND FURTHERMORE, BE CAREFUL!**

- Some pictures in this manual may show the safety guarding open or removed to better illustrate a particular feature or adjustment.  
**ENSURE TO CLOSE OR REPLACE ALL GUARDS BEFORE OPERATING THE MACHINE.**

### PRECAUTIONARY STATEMENTS

#### Personal safety

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION", "WARNING", and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



#### CAUTION:

The word "CAUTION" is used where a safe behavioural practice according to operating and maintenance instructions and common safety practices will protect the operator and others from accident involvement.



#### WARNING:

The word "WARNING" denotes a potential or hidden hazard which could possibly cause serious injury. It is used to warn operators and others to exercise due care and attention to avoid a surprise accident with machinery



#### DANGER:

The word "DANGER" denotes a forbidden practice in connection with a serious hazard.

**FAILURE TO FOLLOW THE "CAUTION", "WARNING", AND "DANGER" INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.**

#### Machine safety

Additional precautionary statements ("ATTENTION" and "IMPORTANT") are followed by specific instructions. These statements are intended for machine safety.

#### ATTENTION:

*The word "ATTENTION" is used to warn the operator of potential machine damage if a certain procedure is not followed.*

#### IMPORTANT:

*The word "IMPORTANT" is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

## SAFETY PRECAUTIONS

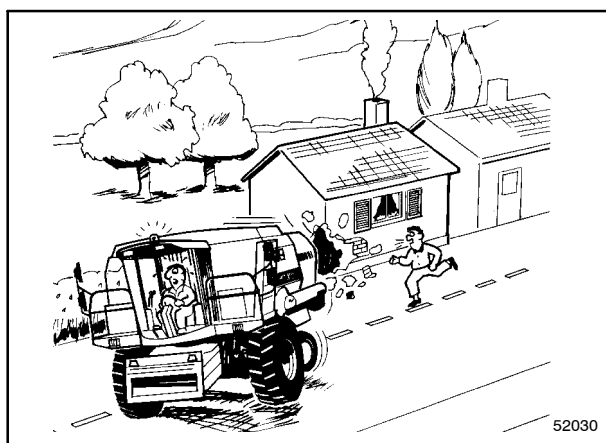
Most farm machinery accidents can be avoided by the observance of a few simple safety precautions.

### General and Operating Safety

1. The machine must only be used by a skilled operator familiar with all the controls and harvesting techniques on cultivated land with slopes up to maximum 26% (15°) uphill and downhill, and maximum 36% (19°) sideways [provided good even ground and sufficient tyre adherence conditions exist].
2. When driving on public roads, observe traffic regulations, adapt your speed to road and traffic conditions and ensure that all lights and other safety mechanisms on the machine (if they are required) are fitted and work properly.

The grain tank must be empty when driving on the road. Ensure that the unloading tube is locked in its closed position.

3. Ensure that both brake pedals are locked together when travelling on public roads.

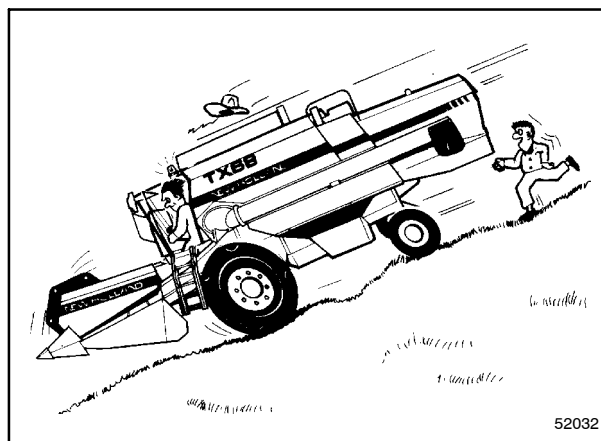


4. Ensure the hazard warning signs provided are installed at the front and the rear of the combine and use the rotating amber traffic warning beacon(s) when driving on public roads to indicate the vehicle is of abnormal size and is slow-moving.

5. Raise and lock the ladders when travelling on public roads. No-one should be standing on the ladders when the machine is moving.
6. Do not permit anyone other than the operator to ride on the combine.



7. Do not brake abruptly to avoid tipping of the machine.
8. Do not exceed 20 km/h when driving downhill. If necessary, change into a lower gear before starting the descent.



9. Before operating the combine ensure that all safety guards are installed.
10. Before starting the engine, ensure everyone is clear of the combine.

Warn bystanders by sounding the horn several times.

## INTRODUCTION

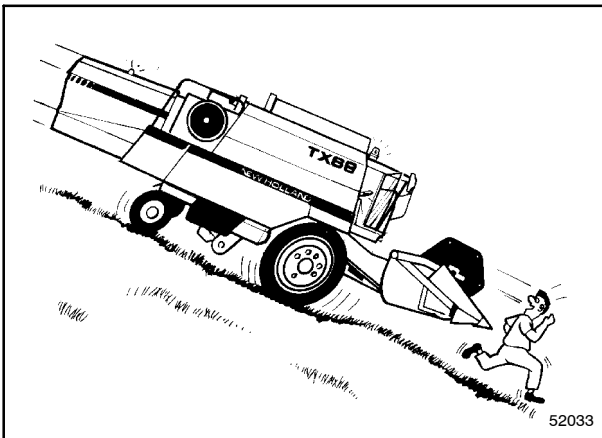
11. Keep children away from and off the combine at all times.

12. Check the wheel nuts torque as described in Section 5 - ADJUSTMENTS AND MAINTENANCE.

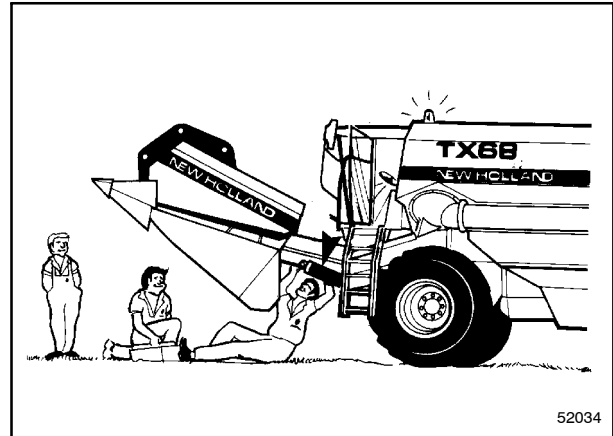
13. Do not enter the grain tank while the combine engine is running. Use a wooden clearing club should the grain tank unloading auger become clogged. Take utmost care not to be pulled into the grain tank in case unplugging is required.

14. Do not attempt to clean, lubricate or carry out any adjustments on the combine while it is in motion or while the engine is running.

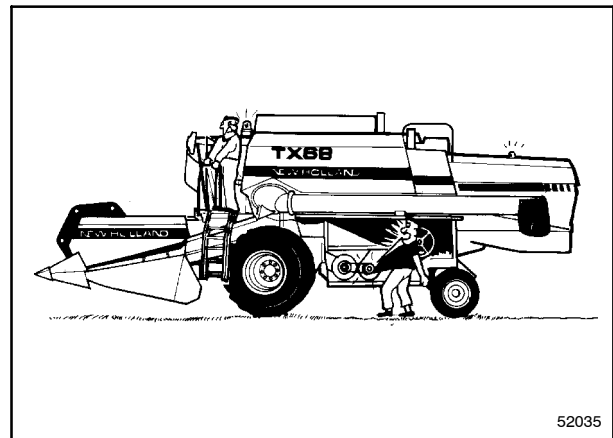
15. For safety's sake never leave the operator's platform without first disengaging the combine drive mechanism, lowering the header, stopping the engine, applying the handbrake and removing the ignition key.



16. Do not work under the combine header unless it is securely blocked and/or the header safety latch is engaged.



17. Do not work around the combine in loose clothing that might catch in any of the moving parts.



18. Keep hands away from moving parts of the combine.

19. Keep the fire extinguisher within easy reach of the operator. Ensure to replace it by a similar type of extinguisher or have it checked or refilled after every usage and/or date of expiry.

20. Do not step on the grain tank covers or the cab roof.

21. When driving on public roads, either with the grain header loaded on a trailer and attached to the rear of the combine, or with the grain header still attached to the combine (provided local legislation allows), the knife should be safeguarded by means of a knife guard, available as an accessory (refer to the Grain Header Operator's Manual).

22. Combine dust can cause "farmer's lung" disease. It may also contain nocive spraying residues. Keep the cab door and window closed during operation. Wear a dust mask when cleaning the air filters or accumulated dust in the combine.

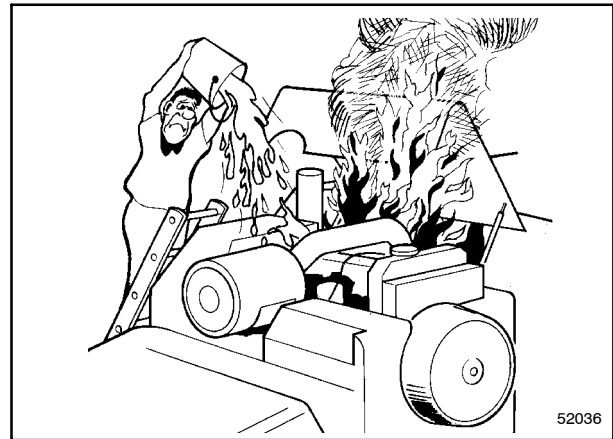
23. Danger of death by electrocution!  
Pay special attention to the overhead power lines. Make sure the machine has sufficient clearance to pass in all directions (also with raised or opened machine components). Also think of the radio aerial(s) or any other factory-fitted accessory or parts which may have been added afterwards.

Should a contact between the machine and an electric power line occur, then the following precautions must be taken: Stop the machine movement immediately, stop the engine and apply the handbrake.

Check if you can safely leave the cab or your actual position without direct contact with electric wires. If not, stay in your position and call for help. If you can leave your position without touching the lines, jump off the last step or support position to ensure that there is no contact between any part of your body and the ground at any time. Do not touch the machine afterwards until power to the lines has been shut off. When people approach the machine, warn them not to touch the machine but to ask the electric power supply company to shut off the power to the lines.

## Engine

1. Keep the engine area clean of dust, chaff and straw to prevent the possibility of fires.



2. Never idle the engine in an enclosed area as harmful exhaust gases may build up.
3. Wear a suitable hearing protective device, such as ear muffs or ear plugs, if you are exposed to noise which you feel is uncomfortable.
4. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the engine is hot.
  - Switch off the engine and wait until it has cooled. Even then use extreme care when removing the cap. Cover the cap with a rag and turn it slowly to the first stop to allow the pressure to escape before removing the cap completely. Stand clear of the radiator opening as hot coolant may splash out.
  - Never add cold water to a hot radiator.



Failure to follow these instructions may result in serious personal injury from hot coolant or steam blowout and/or damage to the cooling system or engine.

5. Antifreeze contains monoethylene glycol and other chemicals which are toxic if taken internally and can be absorbed in toxic amounts through repeated or prolonged skin contact. Follow these precautions when working with antifreeze:
  - Do not take antifreeze internally. If antifreeze is swallowed accidentally, obtain medical attention immediately.
  - Keep antifreeze in sealed containers out of reach of children, livestock or pets.
6. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a fuel injection pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions may result in serious injury. If fuel is injected through the skin, medical assistance should be obtained.
7. Be very careful to avoid contact with hot engine oil. If the engine oil is extremely hot, allow the oil to cool to a moderately warm temperature for safe removal.

8. Do not handle a hot oil filter with bare hands.
9. Continuous and prolonged contact with used engine oil may cause skin cancer. Protect your skin by wearing heavy plastic gloves. If oil gets onto the skin, wash promptly with soap and water.

### Diesel fuel

1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. In a closed container, such as a fuel tank, such blends are more explosive than pure gasoline. **Do not use these blends.**
2. Never remove the fuel tank cap or refuel with the engine running or hot. Refuel the harvester only when the engine has been turned off. Do not smoke or use a naked flame when refuelling or when standing near fuel tanks.
3. Maintain control of the fuel filter pipe nozzle when filling the tank.
4. Do not fill the fuel tank to capacity. Allow room for expansion.
5. Wipe up spilled fuel immediately.
6. Always tighten the fuel tank cap securely.
7. If the original fuel tank cap is lost, replace it with an approved cap. A nonapproved, proprietary cap may not be safe.
8. Keep equipment clean and properly maintained.
9. Do not drive equipment near open fires.
10. Never use fuel for cleaning purposes.

**BATTERY WARNING****CAUTION:**

The battery contains a sulphuric acid electrolyte which may cause severe burns and produce explosive gases. Avoid contact with the skin, eyes or clothing. Do not take internally.

The essential precautions listed below must be observed:

- Do not use a naked flame to check the electrolyte level. Keep sparks, flames and lighted tobacco away.
- Do not produce sparks with cable clamps when charging the battery or starting the engine with a slave battery.

- Wear eye protection when working near batteries.
- Provide ventilation when charging or using in an enclosed space.
- Ensure the vent plugs are correctly installed and tight.

If the electrolyte comes into contact with the skin, eyes or is taken internally, treat as follows:

Skin: Flush with cold water.

Eyes: Flush with cold water for 10 minutes and get prompt medical attention.

Internal: Call a doctor immediately.

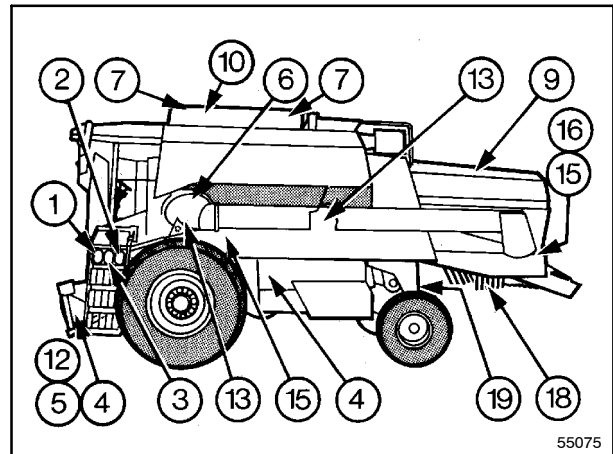
**SAFETY DECALS**

The following safety decals have been placed on your machine in the areas indicated. They are intended for the personal safety of you and those working with you.

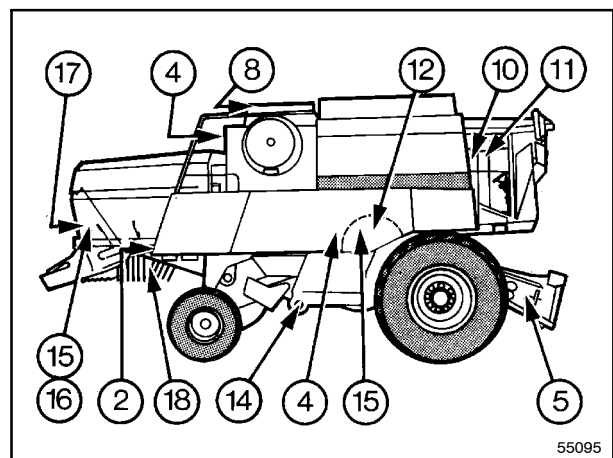
Please take this manual, walk around your machine and note the content and location of these warning signs.

Review these decals and the operating instructions in this manual with your machine operators.

Keep the decals legible. If they are not, obtain replacements from your dealer.

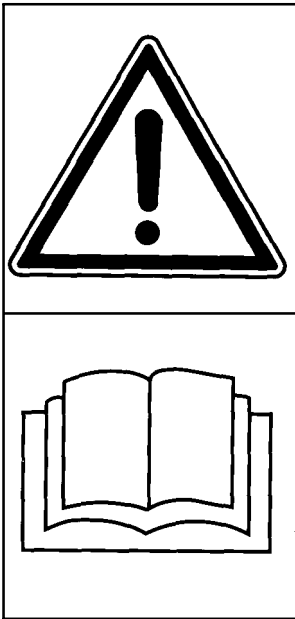


10



11

Decal 1



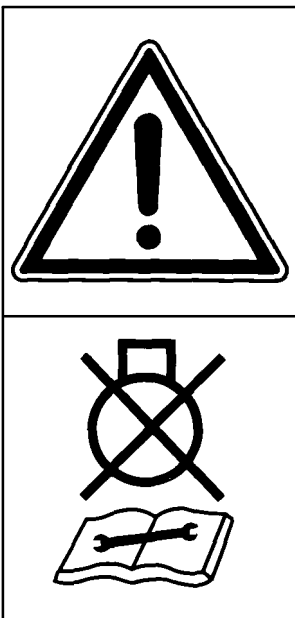
Carefully read the Operator's Manual before operating the machine. Observe instructions and safety rules when operating.

Decal 2



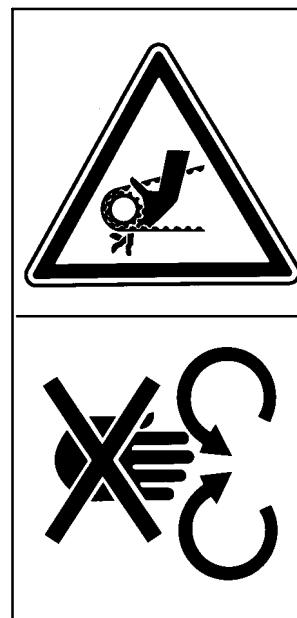
Do not ride on platform or ladder.

Decal 3



Disengage all drives, stop the engine and wait until moving parts have stopped before cleaning or servicing the machine.

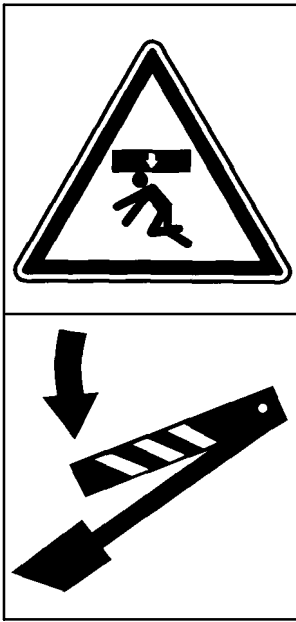
Decal 4



Do not open or remove safety shield while engine is running.

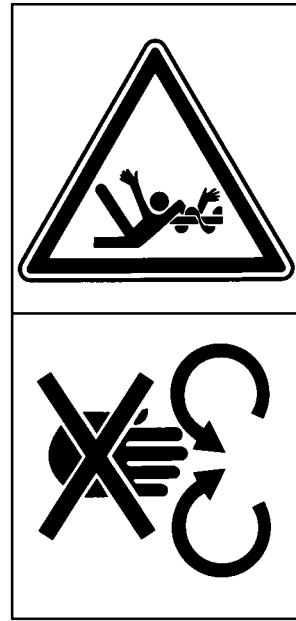


Decal 5



Secure lift cylinder with locking device before getting in dangerous area.

Decal 6



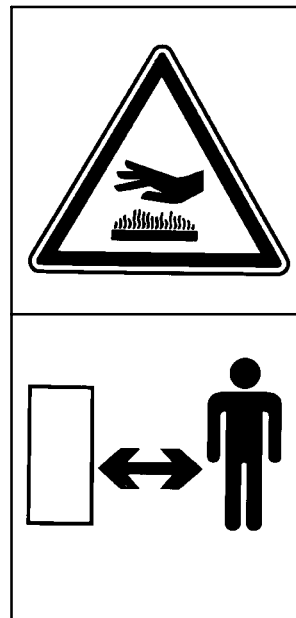
Never reach into rotating auger.

Decal 7



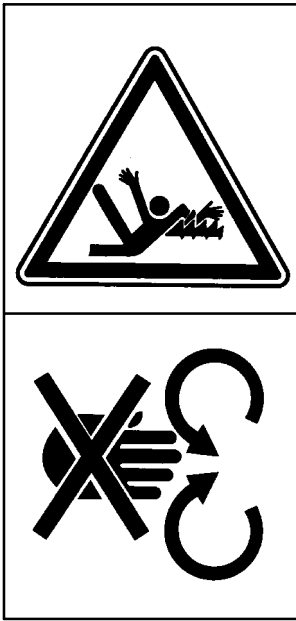
Never reach nor climb into grain tank while engine is running.

Decal 8



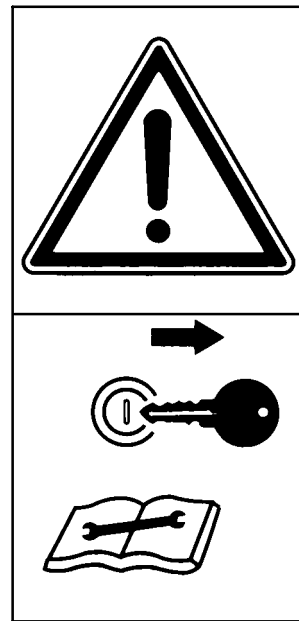
Stay clear of hot surface.

Decal 9



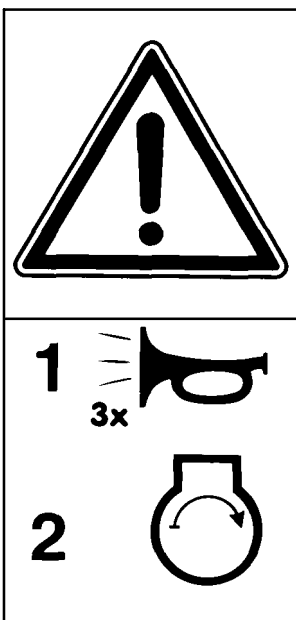
Do not reach into straw walkers while engine is running.

Decal 10



Shut off engine and remove ignition key before performing maintenance or repair work.

Decal 11



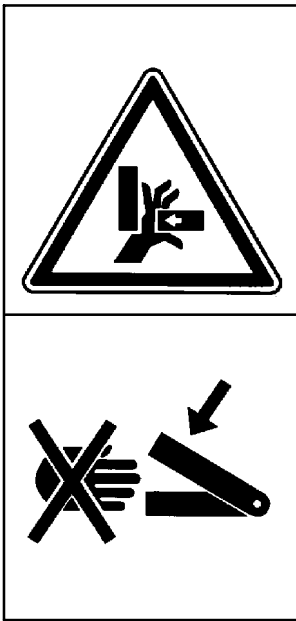
Sound the horn 3 times before starting the engine.

Decal 12



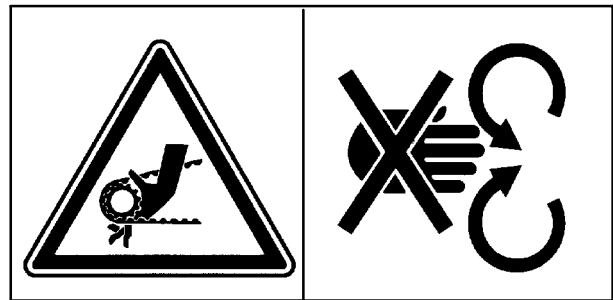
Hydraulic accumulator contains gas and oil under pressure. For removal and repair, contact your local New Holland dealer.

Decal 13



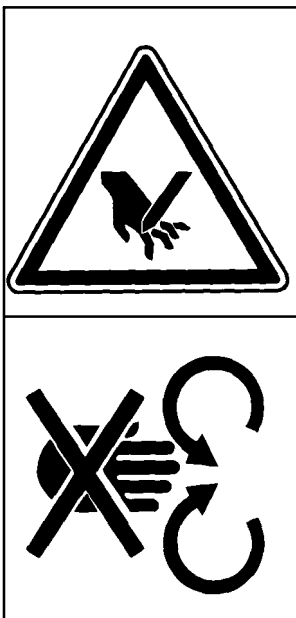
Never reach into the crushing danger area as long as parts may move.

Decal 14



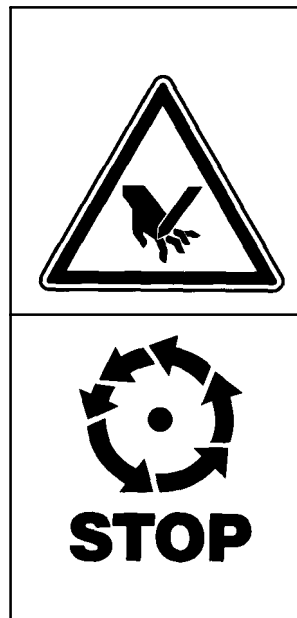
Do not open or remove safety guard while engine is running.

Decal 15



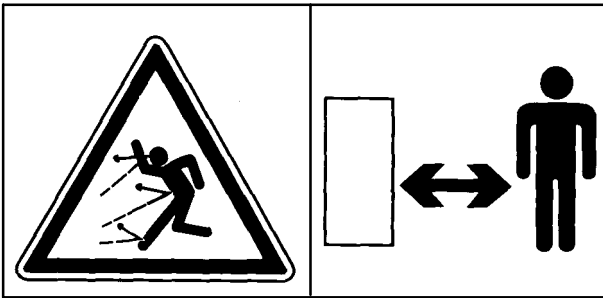
DANGER:  
Stay clear of rotating machine parts.

Decal 16



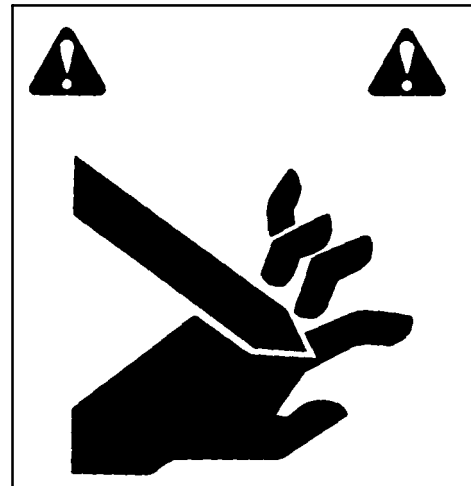
Wait until all machine components have stopped completely before touching them.

Decal 17



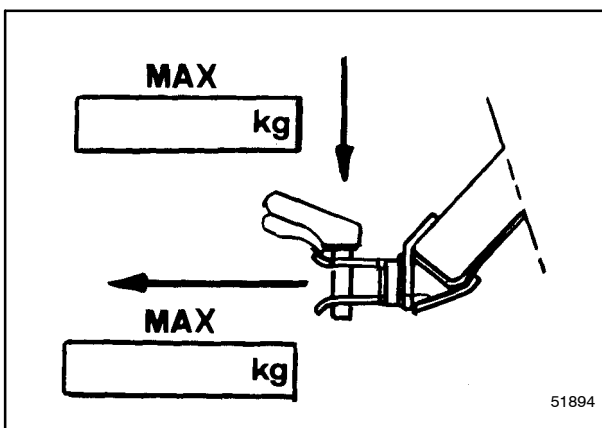
DANGER:  
Stay clear while engine is running.

Decal 18



DANGER:  
Stay clear while engine is running.

Decal 19



This plate indicates:

1. The maximum allowed vertical force.
2. The maximum allowed horizontal pull force of the hitch.

**PROTECTIVE DEVICES**

**Header standard safety latch – Figure 12**

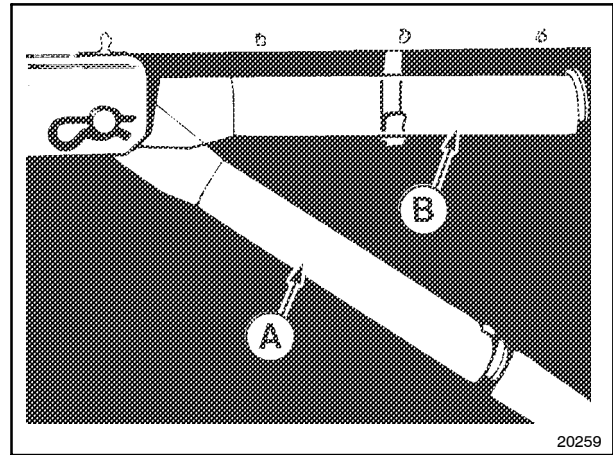
The left-hand header cylinder is standard fitted with a safety latch which must be lowered onto the cylinder rod to prevent accidental lowering of the header.

Whenever work is carried out underneath the header, the latch must be lowered onto the cylinder rod as shown at A.

When not in use the header safety latch must be stored as shown at B.

**ATTENTION:**

*Do not use the safety latch A as a support for the header when travelling along public roads otherwise damage may occur to the cylinder.*

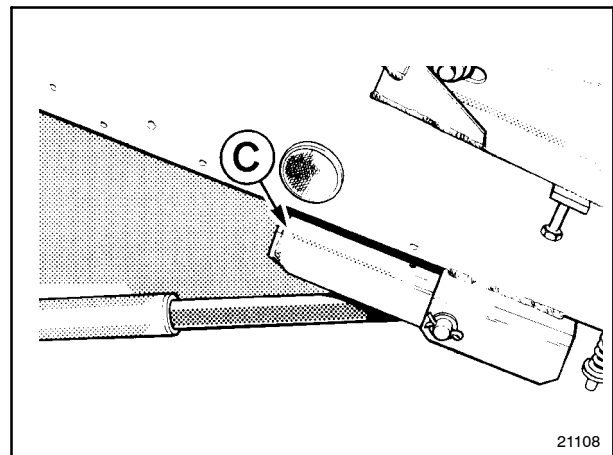


12

**Header additional safety latch – Figure 13**

For certain countries a small safety latch C is fitted onto the right-hand cylinder. It must be lowered onto the cylinder rod when driving on public roads to prevent accidental lowering of the straw elevator.

When a flip-up maize header is attached to the straw elevator, a special safety latch (provided with the machine) must be installed and lowered onto the cylinder rod when driving on public roads.



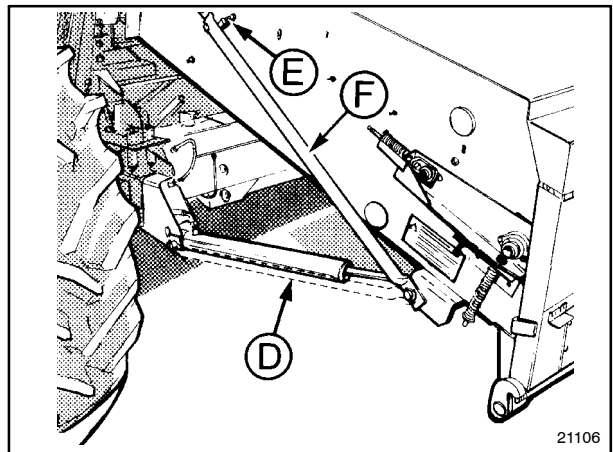
13

**Straw elevator additional support – Figure 14**

For certain countries there is a legal obligation to have an additional support F installed on the right-hand side of the straw elevator. This support must be placed in position D whenever the machine is driven on public roads.

When not in use, support F can be stored in bracket E.

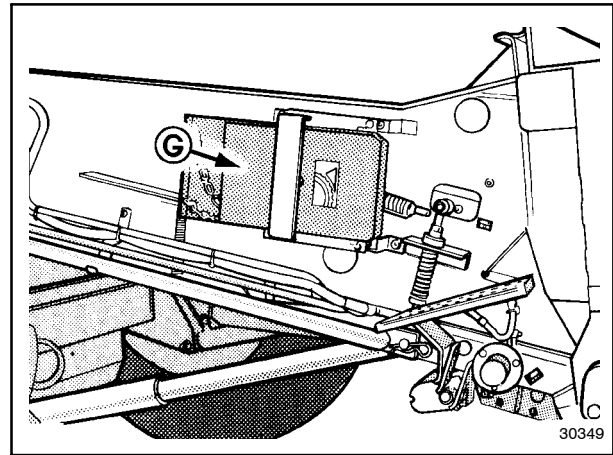
When a maize header is attached to the straw elevator, a special support F (provided with the machine) must be installed and used when driving on public roads.



14

**Wheel chock** - Figures 15 and 16

For some countries metal wedges G are stored on the right-hand side of the straw elevator.

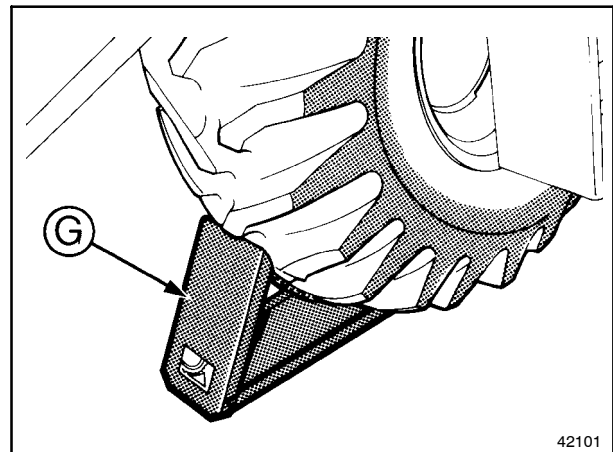


15

When the machine is parked on a nonlevel surface, the wedge G has to be placed at the lowest side, against the traction wheel.

**CAUTION:**

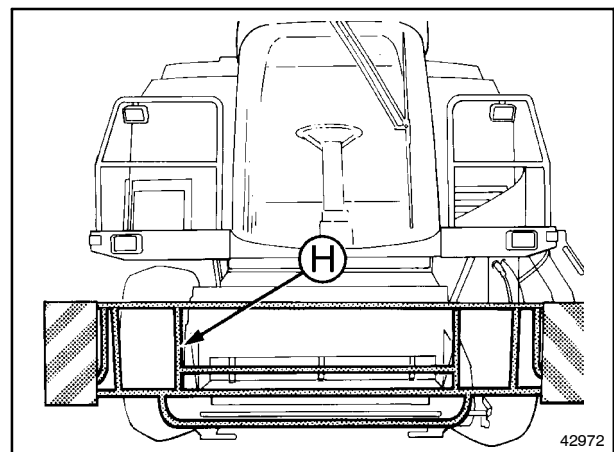
**Do not place the wedges against the steering wheels.**



16

**Safety guard for straw elevator** - Figure 17

For some countries, the safety railing H must be installed for road transport and secured to the front of the straw elevator.



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