

Service Manual  
**MF5200**



VISION INNOVATION LEADERSHIP QUALITY RELIABILITY SUPPORT PRIDE COMMITMENT



MASSEY FERGUSON

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# Massey Ferguson®

## 5200 Draper Header

### SERVICE MANUAL 4283488M1

XXXXXXXXXXCHDW1999 AND PRIOR

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# SAFETY

## SAFETY ALERT SYMBOL

**FIG. 1:** The safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!


Look for the safety alert symbol both in this manual and on safety signs on this machine. The safety alert symbol will direct your attention to information that involves your safety and the safety of others.




FIG. 1

## SAFETY MESSAGES

**FIG. 2:** The words DANGER, WARNING or CAUTION are used with the safety alert symbol. Learn to recognize these safety alerts and follow the recommended precautions and safety practices.

 **DANGER:** Indicates an imminently hazardous situation that, if not avoided, will result in DEATH OR VERY SERIOUS INJURY.

 **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in DEATH OR SERIOUS INJURY.

 **CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in MINOR INJURY.



FIG. 2

## INFORMATIONAL MESSAGES

The words IMPORTANT and NOTE are not related to personal safety, but are used to give additional information and tips for operating or servicing this equipment.

*IMPORTANT: Identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of the machine, process, or its surroundings.*

*NOTE: Identifies points of particular interest for more efficient and convenient repair or operation.*

# Safety

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## SAFETY SIGNS



**WARNING: DO NOT remove or obscure Danger, Warning or Caution signs. Replace any Danger, Warning or Caution signs that are not readable or are missing. Replacement signs are available from your dealer in the event of loss or damage. The actual location of the safety signs is illustrated at the end of this section.**

Keep signs clean by wiping off regularly. Use a cleaning solution if necessary.

If parts have been replaced or a used machine has been purchased, make sure all safety signs are in the correct location and can be read. Illustrations of safety sign locations are located at the rear of this section.

Replace any safety signs that can not be read or are missing. Clean the machine surface thoroughly with a cleaning solution before replacing signs. Replacement safety signs are available from your dealer.

## A WORD TO THE OPERATOR

**FIG. 3:** It is YOUR responsibility to read and understand the safety section in this manual and the manual for all attachments before operating this machine. Remember YOU are the key to safety. Good safety practices not only protect you, but also the people around you.

Study the features in this manual and make them a working part of your safety program. Keep in mind that this safety section is written only for this type of machine. Practice all other usual and customary safe working precautions, and above all **REMEMBER - SAFETY IS YOUR RESPONSIBILITY. YOU CAN PREVENT SERIOUS INJURY OR DEATH.**

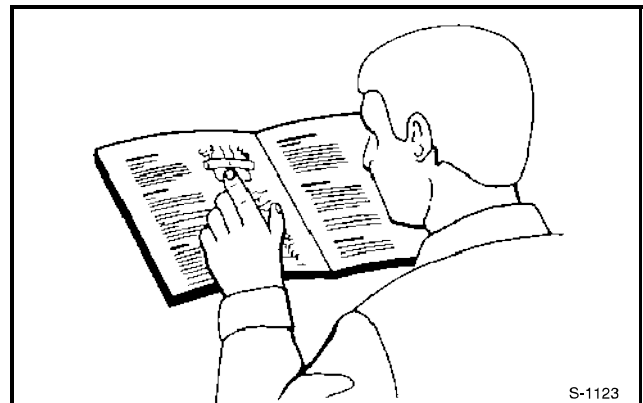
This safety section is intended to point out some of the basic safety situations that may be encountered during the normal operation and maintenance of your machine. This section also suggests possible ways of dealing with these situations. This section is **NOT** a replacement for other safety practices featured in other sections of this manual.

Personal injury or death may result if these precautions are not followed.

Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate the machine without instruction and training.

For your personal safety and the personal safety of others, follow all safety precautions and instructions found in the manuals and on safety signs affixed to the machine and all attachments.



**FIG. 3**

Not every possible circumstance involving a potential hazard can be anticipated. The warnings in this publication and on the machine are not all inclusive. Always use caution if using a tool procedure, work method, or operating technique not specifically recommended.

Use only approved attachments and equipment.

Make sure your machine has the correct equipment needed by the local regulations.



**WARNING: An operator should not use alcohol or drugs which can affect their alertness or coordination. An operator on prescription or 'over the counter' drugs needs medical advice on whether or not they can properly operate machines.**



**CAUTION: If any attachments used on this equipment have a separate Operator Manual, see that manual for other important safety information.**



**CAUTION: See the windrower tractor Operator Manual for other important safety information.**

### OPERATOR MANUAL

This manual covers general safety practices for this machine. The Operator Manual must always be kept with the machine.

Right-hand and left-hand, as used in this manual, are determined by facing the direction the machine will travel when in use.

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible in-line production changes, your machine can vary slightly in detail. The manufacturer reserves the right to redesign and change the machine as necessary without notification.

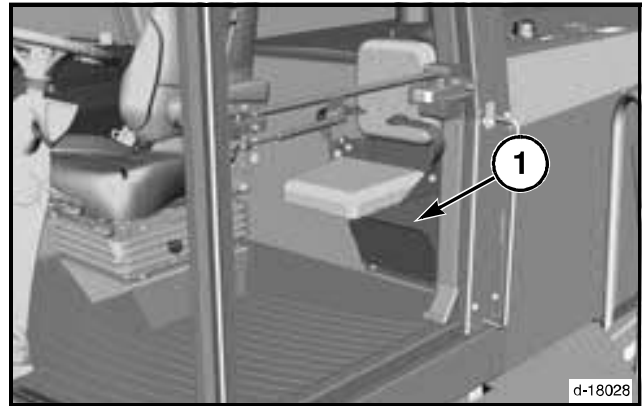


**WARNING: In some of the illustrations and photos used in this manual, shields or guards may have been removed for clarity. Never operate the machine with any shields or guards removed. If the removal of shields or guards is necessary to make a repair, they MUST be replaced before operation.**



## Safety

**FIG. 4:** The Operator Manual is stored in the holder (1) on the machine. After using the Operator Manual, return the manual to the storage location.



**FIG. 4**

### PREPARE FOR OPERATION

Read and understand all operating instructions and precautions in this manual before operating or servicing the machine.

Make sure you know and understand the positions and operations of all controls. Make certain all controls are in neutral and the parking brake is applied before starting the machine. Make sure the steering wheel is centered and locked.



**WARNING:** Any time the engine is running and the parking brake is disengaged, the machine will turn if the steering wheel is moved even though the travel control lever is in neutral.

Make certain all people are well away from your area of work before starting and operating the machine. Check and learn all controls in an area clear of people and obstacles before starting your work. Be aware of the machine size and have enough space available to allow for operation. Never operate the machine at high speeds in crowded places.

Emphasize the importance of using correct procedures when working around and operating the machine. Do not let children or unqualified persons operate the machine. Keep others, especially children, away from your area of work. Do not permit others to ride on the machine.

Make sure the machine is in the proper operating condition as stated in the Operator Manual. Make sure the machine has the correct equipment required by local regulations.

All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this equipment before you start.

**OPERATION**

**General Information**

**FIG. 5:** When parking, park the machine on a solid level surface and lower the header to the ground. Put all controls in neutral, center and lock the steering wheel, and apply the parking brake. Stop the tractor engine and take the key with you.



**WARNING: Do not leave the machine unattended with the header raised. Lower the header fully before leaving the machine. A sudden loss of hydraulic pressure can cause the header to drop without warning.**

Make sure the machine is in the proper operating condition according to the Operator Manual.

Always operate the machine with the control console turned on.

Do not dismount from moving machinery.

Stay off slopes too steep for operation.

Be aware of the size of the machine and have enough space available to allow for operation.

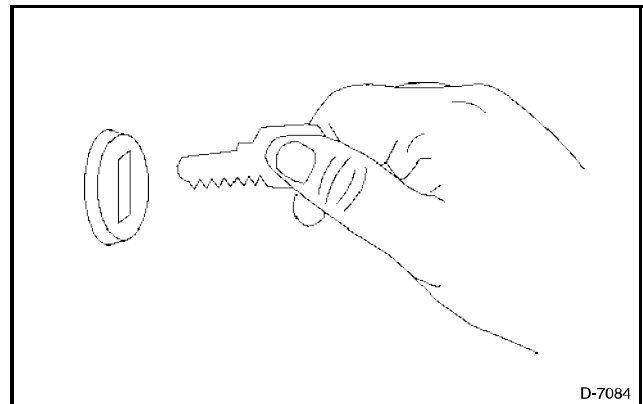
**FIG. 6:** Stay off slopes too steep for operation. Keep the header as low as possible while going down hills. Never suddenly reverse the wheels to stop or back up.

Where possible avoid operating the machine near ditches, embankments, and holes. Reduce ground speed when operating on rough, slippery, or muddy surfaces and when turning or crossing slopes.

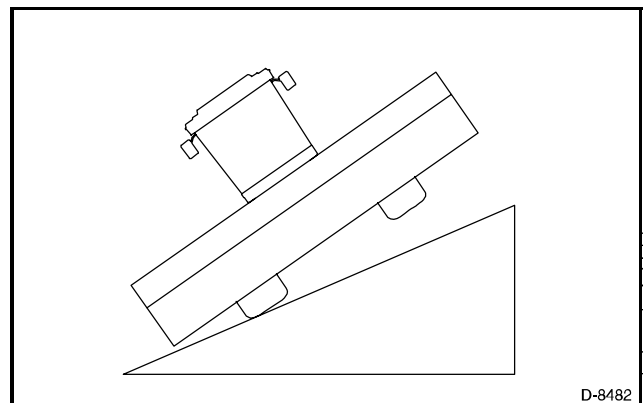
Regulate ground speed to field conditions, and maintain control at all times.

Do not dismount from moving machinery.

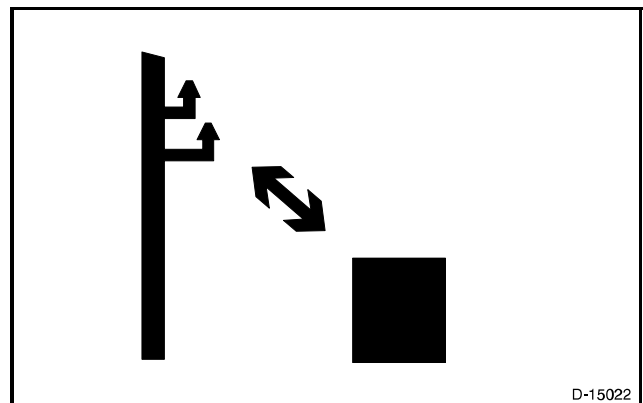
**FIG. 7:** Avoid contact with electrical power lines. Contact with electrical power lines can cause electrical shock, resulting in very serious injury or death.



**FIG. 5**



**FIG. 6**



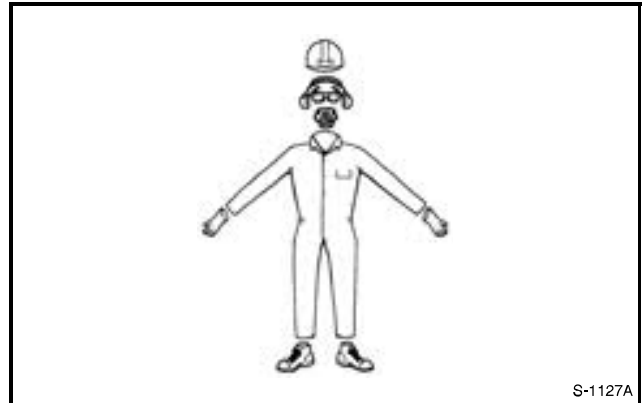
**FIG. 7**

# Safety

## PPE (Personal Protection Equipment)

**FIG. 8:** Wear all personal protective equipment (PPE) and protective clothing issued to you or called for by job conditions and country/local regulations. PPE includes, but is not limited to, equipment to protect eyes, lungs, ears, head, hands and feet when operating, servicing or repairing equipment.

Always keep hands, feet, hair, and clothing away from moving parts. Do not wear loose clothing, jewelry, watches, or other items that could entangle in moving parts. Tie up long hair that can also entangle in moving parts.



**FIG. 8**

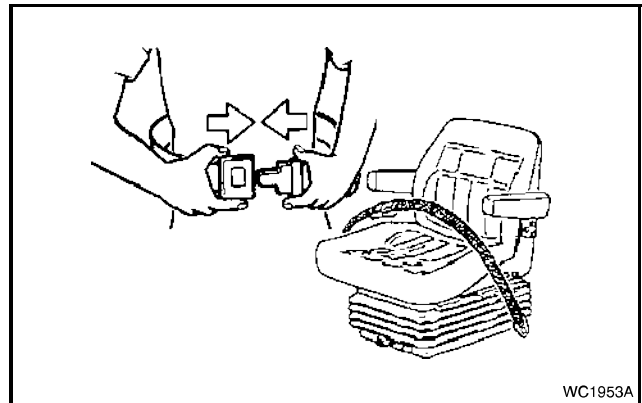
## Seat Instructions

Securely fasten the seat belt before operating the machine. Always remain seated and have the seat belt fastened while operating the machine. Replace the seat belts when they become worn or broken.

Never wear a seat belt loosely or with slack in the belt system. Never wear the seat belt in a twisted condition or pinched between the seat structural members.

When using the instructional seat, if equipped, securely fasten the seat belt. The instructional seat is to be used only to train new operators or diagnose a problem. The instructional seat is only intended for short periods of use. Extra riders, especially children, are not permitted on the machine.

When the instructional seat is used the machine must be driven at a slower speed and on level ground. Avoid quick starts, stops, and sharp turns. Avoid driving on highways or public roads.

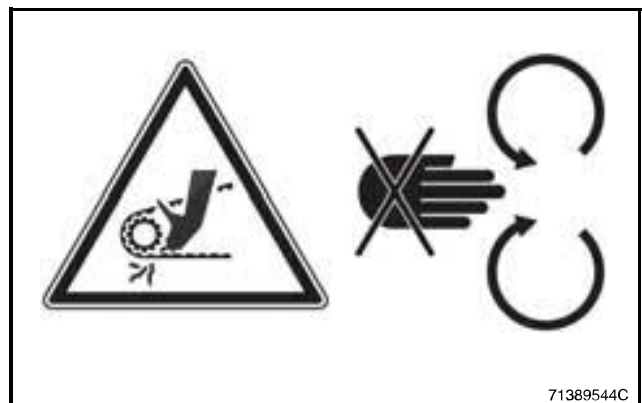


**FIG. 9**

## Shield and Guards

**FIG. 10:** All shields and guards must be in the correct operating position and in good condition.

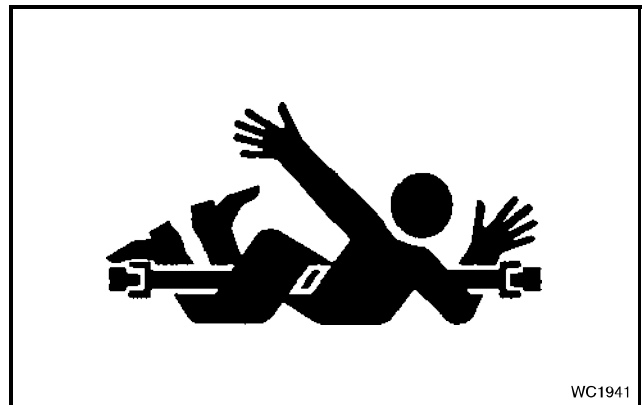
Do not open, remove, or reach around shields while the engine is operating. Entanglement in rotating belts and components can cause serious injury or death. Stay clear of rotating components.



**FIG. 10**

**FIG. 11:** Do not operate the machine with the drive shaft shields open or removed. Entanglement in rotating drive shafts can cause serious injury or death. Stay clear of rotating components.

Make sure rotating guards turn freely.



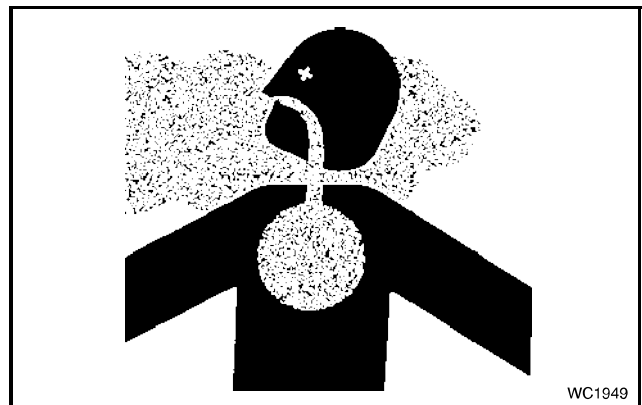
WC1941

**FIG. 11**

### Exhaust Warning

**FIG. 12:** Never operate the engine in a closed building unless the exhaust is vented outside.

Do not tamper with or modify the exhaust system with unapproved extensions.

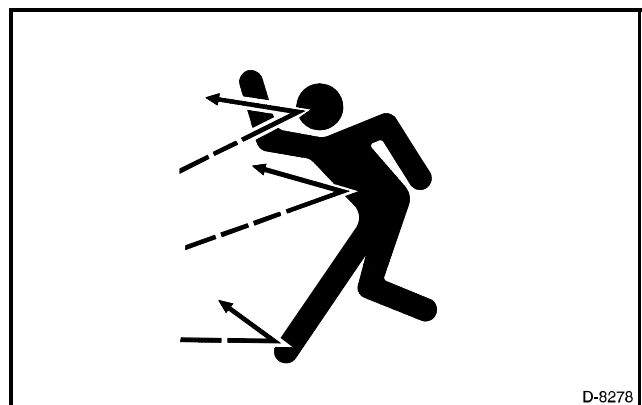


WC1949

**FIG. 12**

### Flying Debris

**FIG. 13:** Never stand near the machine during operation. Debris can be thrown from the machine during operation possibly resulting in injury.



D-8278

**FIG. 13**

## Safety

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### Handrails

**FIG. 14:** Face the ladder and use the handrails when getting on or off the machine.



**FIG. 14**

### Agricultural Chemicals

Agricultural chemicals can be very hazardous. Improper use of fertilizer, fungicides, herbicides, insecticides and pesticides can injure people, plants, animals, soil and other people's property.

Always read and follow all manufacturers' instructions before opening any chemical container.

Even if you think you know the instructions, read and follow instructions each time you use a chemical.

Use the same precautions when adjusting, servicing, cleaning or storing the machine as used when installing chemicals into the hoppers or tanks.

Inform anyone who comes in contact with chemicals of the potential hazards involved and the safety precautions required.

Stand upwind and away from smoke from a chemical fire.

**TRAVEL ON PUBLIC ROADS**

**FIG. 15:** Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you travel on public roads.

Use good judgment when traveling on public roads. Maintain complete control of the machine at all times. Never coast down hills.

The maximum speed of farm equipment is governed by local regulations. Adjust travel speed to maintain control at all times.

Familiarize yourself with and obey all road regulations that apply to your machine. Consult your local law enforcement agency for local regulations regarding movement of farm equipment on public roads. Use headlights, flashing warning lights, taillights and turn signals, day and night, unless prohibited by local law.

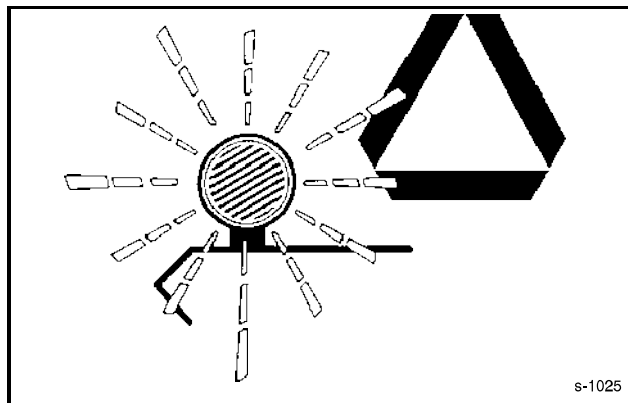
Make sure all the flashers are operating prior to driving on the road. Make sure reflectors are correctly installed, in good condition, and wiped clean. Make sure the Slow Moving Vehicle (SMV) emblem is clean, visible, and correctly mounted on the rear of the machine.

Always travel with the header as low as possible. Do not drive with header up and the lift cylinder stops in the locked position. See Cylinder Stops in this section for more information.

Be aware of other traffic on the road. Keep well over to your own side of the road and pull over, whenever possible, to let faster traffic pass.

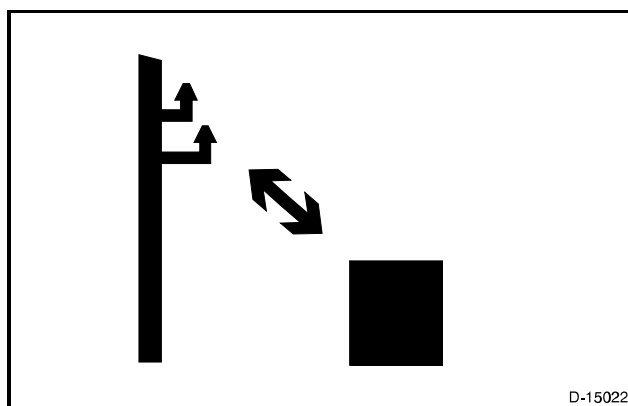
Be aware of the overall width, length, height, and weight of the machine. Be careful when transporting the machine on narrow roads and across narrow bridges.

**FIG. 16:** Watch for overhead wires and other obstructions. Avoid contact with electrical power lines. Contact with electrical power lines can cause electrical shock, resulting in very serious injury or death.



**FIG. 15**

s-1025



**FIG. 16**

D-15022

# Safety

## MAINTENANCE

### General Information

**FIG. 17:** Before doing any unplugging, lubricating, servicing, cleaning, or adjusting:

- Put all controls in neutral and center and lock the steering wheel.
- Turn off the control console, if equipped.
- Stop the engine and take the key with you.
- Look and Listen! Make sure all moving parts have stopped.
- Put blocks in front of and behind the wheels of the machine before working on or under the machine.

Do not pull crop or any other object from the machine while the machine engine is running. Moving parts can pull you in faster than you can move away.

Check all nuts and bolts periodically for tightness, especially wheel mounting hardware.

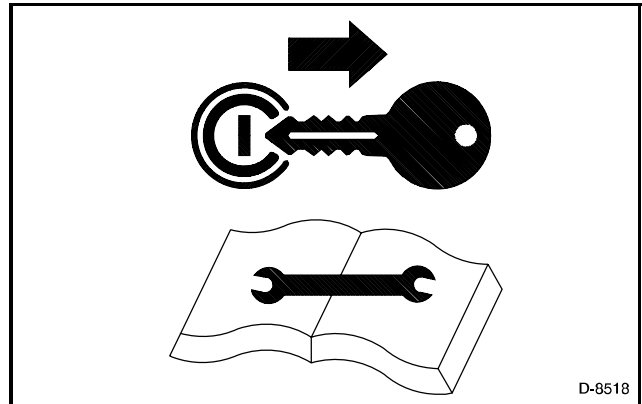
Do not attempt to service or adjust the machine until all moving parts have stopped.

After unplugging, lubricating, servicing, cleaning, or adjusting the machine make sure all tools and equipment have been removed.

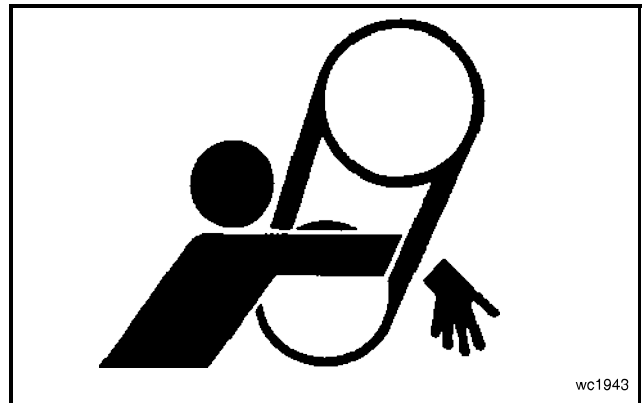
Make sure electrical connectors are clean and free of dirt or grease before connecting.

Check for loose, broken, missing, or damaged parts. Make sure the machine is in good repair. Make sure all guards and shields are in position.

**FIG. 18:** Never service, check or adjust drive chains or belts while the engine is running.



**FIG. 17**



**FIG. 18**

**Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING**



**NOTE:**

**If there is no response to click on the link above, please download the PDF document first and then click on it.**



**FIG. 19:** Do not operate the machine with the drive shafts shields open or removed. Entanglement in rotating drive shafts can cause serious injury or death.

Stay clear of rotating components.

Make sure rotating guards turn freely.

A loose yoke can slip off a shaft and result in injury to persons or damage to the machine.

When installing a quick disconnect yoke, the spring activated locking pins must slide freely and be seated in the groove on the shaft. Pull on the driveline to make sure the quick disconnect yoke can not be pulled off the shaft.



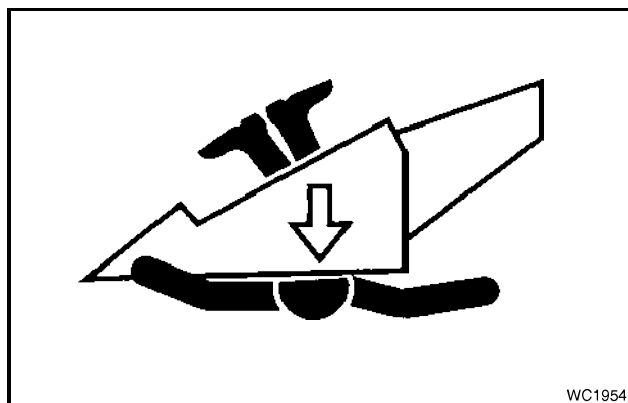
**FIG. 19**

**FIG. 20:** When working on the machine, make sure the header and reel are lowered all the way.

When it is necessary for the header or the reel to be in the raised position, raise the header or reel all the way and engage the cylinder stops, if equipped. See Cylinder Stops in this section for more information.



**WARNING:** Always install the header lift cylinder stops, if equipped, when working near the header. Do not rely on the hydraulic system to keep the header raised. A sudden loss of hydraulic pressure could cause the header to lower unexpectedly.



**FIG. 20**

**FIG. 21:** Remove spilled oil, antifreeze or fuel immediately from operator's ladder and platform and other access areas.

Keep all access areas clean and free of obstructions.



**FIG. 21**

## Safety

### Fire Prevention and First Aid

**FIG. 22:** Be prepared for emergencies.

Keep a first aid kit handy for treatment of minor cuts and scratches.

Always carry one or more fire extinguishers of the correct type. Check fire extinguishers regularly as instructed by the manufacturer. Make sure fire extinguishers are properly charged and in operating condition.

Due to the nature of the crops this machine will operate in, the risk of fire is of concern. Use a water type fire extinguisher or other water source for a fire in crop.

For fires involving anything other than crop, such as oil or electrical components, use a dry chemical fire extinguisher with an ABC rating.

Mount fire extinguishers within easy reach of where fires can occur.

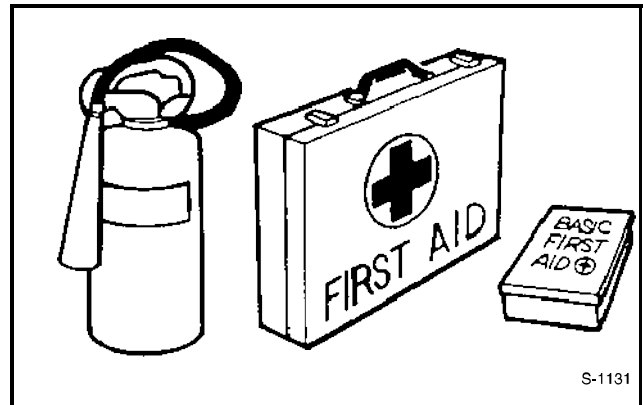
Frequently remove accumulated crop material from the machine and check for overheated components. Check the machine daily for any noises that are not normal. Such noises could indicate a failed component that can cause excess heat.

If any flame cutting, welding, or arc welding is to be done on the machine or attachments, make sure to clear any crop material or debris from around the area. Make sure the area below the work area is clear of any flammable material as falling molten metal or sparks can ignite the material.

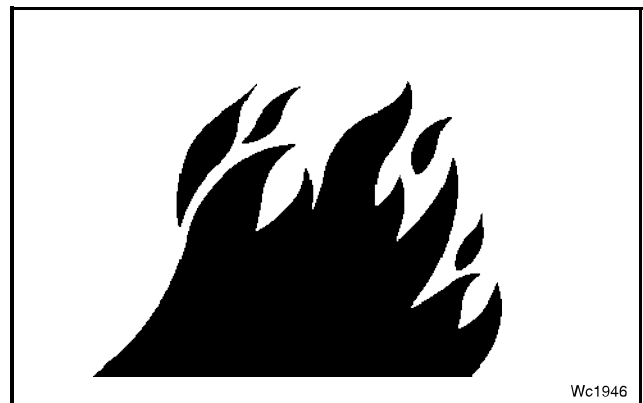
**FIG. 23:** All fuels, most lubricants, and some coolant mixture are flammable. Flammable fluids leaking or spilled onto hot surfaces or electrical components can cause a fire.

Store fuels and lubricants in properly marked containers away from unauthorized persons. Store oily rags and any flammable materials in protective containers.

If fire occurs stand upwind and away from smoke from the fire.



**FIG. 22**



**FIG. 23**

## Checking for High Pressure Leaks

**FIG. 24:** Fluid leaking from the hydraulic system or the fuel injection system under high pressure can be very hard to see. The fluid can go into the skin causing serious injury.

Fluid injected into the skin must be surgically removed within a few hours. If not removed immediately, serious infection or reaction can develop. Go immediately to a doctor who knows about this type of injury.

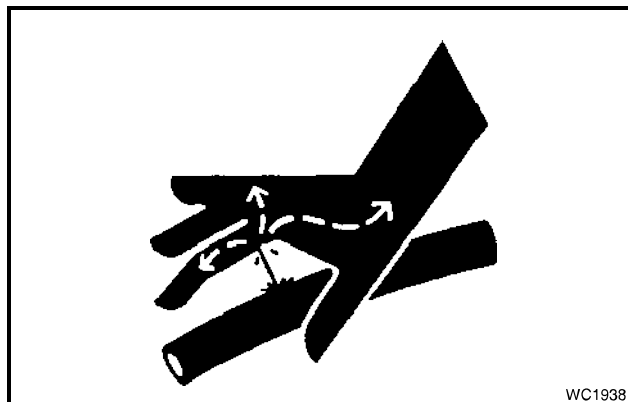


FIG. 24

**FIG. 25:** Use a piece of cardboard or wood to search for possible leaks. Do not use your bare hand. Wear leather gloves for hand protection and safety goggles for eye protection.

Relieve all pressure before loosening any hydraulic lines. Relieve the pressure by lowering raised equipment, shutting off accumulator valve, if equipped, and shutting off the engine. Tighten all connections securely before applying pressure.

*IMPORTANT: Make sure fluids are contained during inspection, maintenance, testing, adjusting, and repair of machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids. Dispose of all fluids according to local regulations and mandates.*

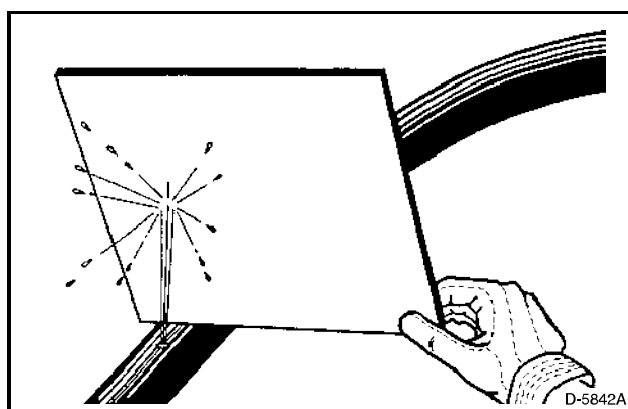


FIG. 25

## Tire Safety

**FIG. 26:** Check tires for cuts, bulges, and correct pressure. Replace worn or damaged tires. When tire service is needed, have a qualified tire mechanic service the tire. Tire changing can be very hazardous and must be done by qualified tire mechanic using proper tools and equipment. See the Specifications Section for the correct tire size.

Tire explosion and/or serious injury can result from over inflation. Do not exceed the tire inflation pressures. See the Specifications Section for the correct tire pressure.

Do not inflate a tire that is seriously under inflated or has been run flat. Have the tire checked by qualified tire mechanic.

When preparing a calcium chloride solution for fluid ballasting the tires, never pour water onto the calcium chloride. Doing so can generate a chlorine gas which is poisonous and explosive. To avoid this, slowly add calcium chloride flakes to water and stir until dissolved.

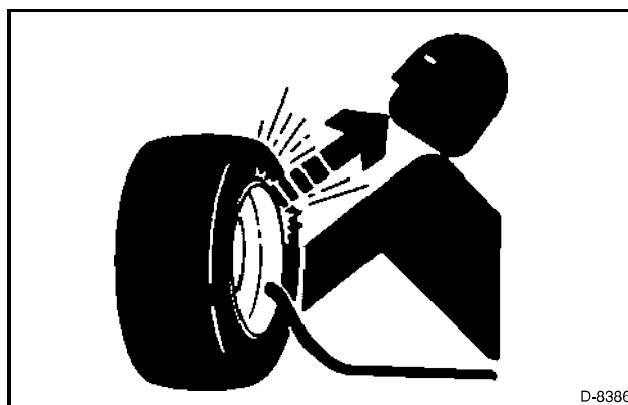


FIG. 26

## Safety

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Do not weld on the rim when a tire is installed. Welding will make an air/gas mixture that can cause an explosion and burn with high temperatures. This danger applies to all tires, inflated or deflated. Removing air or breaking the bead is not enough. The tire must be completely removed from the rim prior to welding.

### CYLINDER STOPS - IF EQUIPPED

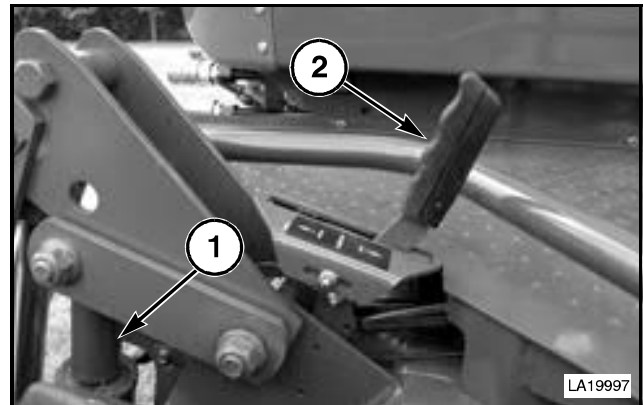
#### Late Production Tractors

Late production tractors are not equipped with a mechanical cylinder stop since the header down valve is mounted directly to the header lift cylinder.

#### Early Production Tractors

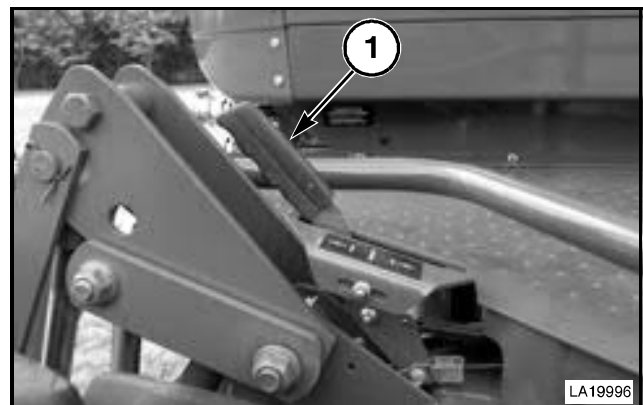
Both header lift cylinders have cylinder stops. The cylinder stops are activated by one lever outside the cab door.

**FIG. 27:** To engage the cylinder stops (1), raise the header completely. Move the lever (2) toward the cab and then pull back toward the rear of the machine to engage the cylinder stops. Make sure the cylinder stops are completely engaged in both header lift cylinders.



**FIG. 27**

**FIG. 28:** To disengage the cylinder stops, raise the header completely. Move the lever (1) toward the cab and then push forward toward the header to disengage the cylinder stops. Make sure the cylinder stops are completely disengaged from both header lift cylinders.



**FIG. 28**